Construction News

★Denotes work advertised in ENGINEERING NEWS.
✚Denotes contract awarded. The names of bidders awarded contracts are set in CAPITALS.

BUSINESS SLOWLY IMPROVING

The shock given to business in May was perhaps overcome in June, but the volume does not increase as steadily as many believed it would. There seems to be every indication that the groundwork has been prepared for the most prosperous year in the history of the country. There were large crops last year and they were sold at high prices. The prospects are that the crops of this year will be fully as remunerative to the farmer, although it is still too early to talk of the corn crop, and besides, industrial activity is picking up. Still general business does not improve as was expected. The only explanation of this is that people are either saving it or paying their debts, and the former is the more probable. The financial situation will be built on this structure, and was never so sound as it now is. With the steady savings of a great population following an accumulation of capital piled up in 1914, this country is buying back from Europe, at bargain prices, securities sold there years ago. The securities that are coming back, too, are not being paid for in legal tender, but in food stuffs and munitions of war, all of which are commanding high prices.

Foreign business has been large, and fortunately, much of it has been for staple goods and not for war munitions. The car equipment companies and the builders of motive power have had a number of orders for quantities of cars and locomotives. Foreign orders are likewise resulting in American manufacturers taking up new ideas of work and effecting economies therein. The enormous orders for aëroplane engines will result in the building of new types of engines on a scale hitherto thought out of the question, and that in itself will result in lowered costs and make possible the building of better high-speed engines than ever before. A Russian order for locomotives required copper fire box lining, and although these have been rolled in the United States before they have not been of arsenical copper. This will save perhaps half a cent per pound in the refining, and at the present price of copper fully a cent per pound in the deleterious material therein contained.

War orders have been just as large as ever, but few of them have gone forward. It is impossible to secure machine tools of some classes within six months, and manufacturers are unwilling to make any contracts for forward delivery. As war orders continue to increase the number of shops turning from peaceful pursuits to manufacture weapons of destruction increase, and there seems to be no limit to the manufacturing establishments taking orders of this character.

The iron trade has increased steadily, and some of the mills are now operating to 90% of capacity, although 80% would be more nearly the general average. It is noteworthy that the Steel Corporation has put in operation some of its plants which cannot be operated at a profit except when prices are fairly remunerative. This is taken by the trade to mean that the Corporation sees higher prices for steel.

The demand for metals continues unabated, but the ridiculously high prices which were current early in June have given away to more reasonable quotations. Spelter, which went up to 29c., is now available at around 20c. Lead which sold at 7c. can be had at 5¾c. Copper which sold at 20½c. has dropped off about a half a cent. In brass tubes, rods, and sheets, there is much irregularity, and practically no current quotations.

Shipbuilding work is extremely active. All of the yards on the Atlantic Coast have orders which will keep them busy for the next twenty-four months, and quite a little business has been taken by yards on the Pacific Coast. The Great Lakes shops also are busy, either repairing, building, or cutting boats in two so that they can be transported through the Welland Canal to the Atlantic Seaboard.

Contracting work has not been so active. There are a great many small jobs in prospect, but the larger jobs are being held up awaiting more definite news relative to financeering. At least one contract has been noted where the condition precedent to the beginning of the work was that the United States should not be at war on August 1. Subway work in New York continues on a fairly active scale, and there is a prospect that this will be increased later in the season.

Rates for long-time securities are higher, and while it is possible to obtain money in abundance, bankers are reluctant to let it go out on long-time investments for municipal purposes unless 4½ to 5½% can be had. In some cases, cities are changing their financial policy by issuing serial bonds, which find more ready favor among investors, and perhaps much of the work now held up can be carried forward by such schemes.

Cement prices in New York were advanced 10c. per bbl. to $1.42 July 1.

LABOR

The expected shortage of labor has not materalized as yet. There is considerable apprehension at the steel mills, but outside of one or two instances there has been no difficulty in securing all of the needed labor. In the coal mines there is some shortage, as the coal trade is more active, due to large export trade. Among contractors no difficulty has as yet been experienced in securing sufficient men to do the work. This applies to all classes of laborers, and it would be comparatively easy to secure a large number of workmen at $1.75 per day. In some of the recent subway bidding it is evident that the larger companies felt that labor might be higher later in the year, as their figures were considerably higher than formerly. Several strikes have occurred, which indicates that labor is better employed. The fact that some of them were quickly stopped and others nipped in their infancy, indicates that the wiser counsellors among labor leaders perceive that it is not the best time to strike. The Chicago traction strike was somewhat of a political affair, and the tieup of the building trades in that city is not especially remarkable when it is considered that there has been nearly 12 months activity in those trades. A threatened strike by the clerical force of the New Haven R.R. is still in abeyance. Fancy wages are being paid for skilled mechanics having the ability to operate machine tools, and all sorts of inducements are made to them to go to Great Britain and work or to go to Canada. In this line, wages have risen in a spectacular way. There is every reason to believe that from now on the countries at war will produce more of their own war munitions than they have in the past. Whether this will reflect on the American output or not is another question.

CEMENT, LIME AND BRICK

Portland Cement—The consumption of cement is about 80% of the maximum output. Most of it is going into small work; that is, aside from the subways in New York, there is very little large work going on. Railroads are doing practically nothing, and this is the one reason why business in the cement trade continues so dull. The advance of 10c. per barrel made earlier in the month, bringing the price to 92c. New York, less the price for bags, and $1.32 the price with bags, has been fairly well sustained, most of the smaller companies being out of the market. There seems to be very good reason to believe that business in the South has improved to a much greater degree than was thought possible when the strenuous competition in that district is taken into consideration. In the West there has been some excellent trade from the road builders. In the East, the reluctance of the railroads and large corporations to spend money has been a telling factor, but at the same time highway work has taken more cement than usual. In the west prices are above 5c. per bbl. higher. The following quotations are current at the points named, and do not include the usual charge for bags:

Chicago	$1.11	Boston	$1.16
Detroit	1.20	Cleveland	1.20
Jersey City	0.74	Duluth	1.37
New York	0.93	Minneapolis	1.37
St. Paul	1.37	Pittsburgh	1.05

Crushed Stone—The entrance of the new interests in the crushed stone business into the New York market has brought about demoralizing conditions. There seems to be no price. It is more a question of getting an order. Sales have been made as low as 65c. per cu.yd. delivered alongside of dock, New York, and when the difference between the various sizes is taken into consideration, even lower prices in proportion have been made. The market seems without bottom, and moreover, there is practically no new business.

Gravel—Sellers of gravel in the New York market have not met the competition of the crushed stone men, but have kept prices fairly steady at 90c. to $1 for subway gravel. The reason for this is the long-time contracts made for some subway gravel at higher prices. Many contractors prefer to use gravel at a dollar rather than crushed stone at 70c.

Lime—The market is steady and without change. Standard 300-lb. special finishing sells at $1.55 to $1.60. Eastern common sells at $1.15.

Brick—The manufacture of brick in the Hudson River district is about 70% of capacity. The stock of bricks in the yards is large. Although there have been larger stocks in years past, the stock now on hand would be enough to break the market under ordinary conditions. Prices are not at all firm at $6@6.50 for Hudson River common and $6.25 for Raritan River brick.

IRON AND STEEL

Pig Iron—The production of pig iron during May was larger than in the corresponding month last year. The blast furnaces of the country are running to 80% of capacity, prices are firmer, and in general the feeling in the pig-iron trade is much more optimistic than a month ago. Individual sales have not been large but have been numerous. Blast furnace interests are reluctant to sell for forward delivery unless premiums above present prices are given. The demand for steel-making iron is relatively more active than foundry iron, although a noticeable improvement in inquiries for foundry brands has sprung up within the last fortnight. An advance of 25c. a ton in the price of southern iron brings the price to $9.75, and is the important price change of the month. Basic iron is also higher. While the price of coke is only 10c. per ton higher than a month ago, this is having its influence in the pig-iron market. Prices in lots of 100 tons or over at the points named are as follows: Cincinnati Southern Foundry No. 2, $12.50 to $13. Cincinnati Northern Foundry No. 2, $13.75 to $14.25. Cincinnati Northern Foundry No. 3, $13.50 to $13.75. New York Northern Foundry No. 2X, $14.25 to $14.50. New York Northern Foundry, No. 2 plain, $13.75 to $14. Southern Foundry No. 2 in the New York market is $14.25. In Chicago, Northern Foundry No. 2 is $13 to $13.50. In Birmingham, the principal pig-iron interests report that they have no iron for sale for any delivery at less than $10. Other interests are quoting $9.75 to $10. In Pittsburgh, Bessemer iron is $14.65 and basic, $13.55 for July and August delivery; $13.65 to $13.70 for delivery over the second half of the year. This includes the 95c. freight charge from the valley to the Pittsburgh district.

Steel Rails—Business has been fairly satisfactory, and the rail mills are busier than at any time in the last year. The Pennsylvania order for upwards of 150,000 tons was placed, and this order included some 125-lb. rails. Other railroads in the United States bought sparingly, it is true, but still there was a fair business contracted. Most of the business aside from the Pennsylvania order has been for foreign accounts. The Russian Government has placed some orders, but practically all of the business from Russia has been of such dilatory nature that only the most patient firms are willing to continue negotiations. Some orders, particularly for engines, were hanging fire for several months, and it is creditably reported that a shell order was delayed six weeks, due to a small difference in the ideas of price. The French Government has purchased a fair tonnage of light rails. The subway and elevated lines in New York are buying small quantities from time to time for new construction. Prices for lots of a thousand tons or over are as follows: Standard sections of Bessemer, $28; Open Hearth, $30, both per gross ton f.o.b. Pittsburgh. In last month's issue an error was made in stating that Bessemer and open hearth rails were sold per net ton. Girder rails in 30-ft. lengths are $36.40 per gross ton; in 60-ft. lengths, $38.40 per gross ton, both f.o.b. New York. Other quotations f.o.b. Pittsburgh for large lots, the prices being given in cents per lb., are as follows:

Standard sections, 1.25c.; 20 to 30 lb., 1.15c.; 15 to 20 lb., 1.20c.; 12 to 18 lb., 1.25c.; 8 to 12 lb., 1.30c.

Track Supplies—The picking up of business which was noted last month continues, but is not especially active. An advance of a dollar a ton in tie plates is noted, the price in Chicago being $23.25 to $24.25 per net ton. Standard railroad spikes are $1.40 to $1.50 Pittsburgh. In Chicago prices are quoted at $1.50, track bolts and square nuts $1.90 in carload lot. Angle bars are likewise quoted at $1.50. These prices are per 100 lb. It is reported that the Baltimore & Ohio recently bought 10,000 kegs of spikes.

Structural Shapes—An advance of 5c. per 100 lb., which was to have taken place on July 1, occurred about the middle of the month. Fabricating orders are not especially large, but there is a great deal of strength in the market for shapes, due to a demand from car builders and shipbuilding concerns. There is also a very good tonnage just now being shipped out of the mills for the new Rapid Transit construction in New York. Prices as stated are higher, for I-beams 3 to 15 in., channels 3 to 15 in., angles 3 to 6 in., T's 3 in. and over, 1.25c. Other quotations include I-beams over 18 in., H-beams over 18 in., channels over 15 in., angles over 14 in., 1.30c.

Cutting to specified lengths is charged at the following rates: 3 ft. to 2 ft. inclusive, 25c.; 2 ft. to 1 ft., 50c.; under 1 ft., $1.55. No charge is made for cuttting to specified lengths above 3 ft. In Philadelphia the base price is $1.41, in San Francisco $2.05 to $2.10, and in New York $1.42. All these prices are per 100 lb.

Plates—The activity in shipbuilding yards continues, and within the last month there have been a number of orders placed for cars, which has resulted in much new business for plates. All of the larger mills are holding to $1.20 Pittsburgh for plates, and some of them state they will not accept orders for third-quarter shipment at less than $1.25. It is evident that the shipbuilding yards have about all the work they can take care of for the next two years, but car orders are still small. The price of plates is $1.20 to $1.25 Pittsburgh, equivalent to $1.29 to $1.34 Chicago, $1.36 to $1.41 Philadelphia, $1.37 to $1.42 New York. All of these quotations are per 100 lb.

Pipe—Business has been more active, both in the black and galvanized. Galvanized pipe is selling at unheard of prices, and as a further effort to restrict consumption mills are accepting orders only on the basis of 60% black pipe and 40% galvanized. This of course accounts for an increase in the demand for black pipe. The recent decline in spelter may bring about lower prices for galvanized, but still there is little likelihood of any cheap galvanized pipe for some time to come.

	Black	Galvanized
¾-in. to 2-in. steel, butt welded	79%	57½%
2½- to 6-in. steel, lap welded	78%	56½%
7- to 12-in. steel, lap welded	76%	54½%

At these discounts the net prices of pipe per foot, in large in lots Pittsburgh, are as follows:

Diameter	Cents Black	Cents Galvanized	Diameter	Cents Black	Cents Galvanized
¾-in.	2.43	4.88	5-in.	32.56	64.38
1-in.	3.57	7.22	6-in.	42.24	83.52
1¼-in.	4.83	9.77	7-in.	57.12	1.08
1½-in.	5.77	11.68	8-in.	60.00	1.13
2-in.	7.77	15.72	9-in.	82.80	1.56
2½-in.	12.87	25.44	10-in.	98.88	1.87
3-in.	16.83	33.27	11-in.	1.11	2.10
4-in.	23.98	47.41	12-in.	1.21	2.31

	Cents per Pound—Large lots Pittsburgh Black	Large lots Pittsburgh *Galv.	Warehouse delivery New York Black	Warehouse delivery New York *Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.75
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

*Quotations nominal.

Cast-Iron Pipe—Pipe foundries are running about 70% to 80% of capacity. There was a fair amount of export business reported from the Birmingham district, but that is retarded on account of the high freight rate. The [illegible] in the price of pig iron is responsible for the str[illegible] in certain markets, such as Chicago, but the entire [illegible] seems to be upward. In New York, Classs A pipe [illegible] pipe is $23.50 to $24 per net ton, while Class B pipe [illegible] to $23.50. In Birmingham, 4 in. is $20, 6 in. and upw[illegible] In Chicago prices are 50c. a ton higher than last [illegible] 4 in. being held at $26; 6 to 12 in., $24; 16 in. and [illegible] $23.50. For Class A pipe and gas pipe $1 per ton [illegible] charged. All of these prices are per net ton.

Sheets—The mills are operating to about 80% of c[illegible]city, and this in spite of the fact that several are refus[illegible] to make contracts for galvanized sheets, practically [illegible] of them holding their salesmen down to confirmation [illegible] their orders by telegraph, and still others doing everythi[illegible] they can to discourage sales. The price of No. 28 galvan[illegible]ed is 5c. per lb. at the mills. This is a difference of 3c. between galvanized and black, compared with about 1c. ordinarily. That trade will quickly turn to black sheets, or stop using sheets for the time being as much as possible, is admitted by all hands. There has been a recent drop of 6 to [illegible] in the price of spelter, but this is scarcely enough to let out the galvanizing mills. If the price drops to around 12 or 15c. there is no doubt that prices would be more nearly normal. Black sheets are quiet, although the falling off in the demand for galvanized has resulted in a heavier increase for black. The following quotations are for large lots of sheets f.o.b. Pittsburgh and small lots from store New York:

	Cents per Pound—Large lots Pittsburgh Black	Large lots Pittsburgh *Galv.	Warehouse delivery New York Black	Warehouse delivery New York *Galv.
No. 10	1.55	4.50	....	....
No. 12	1.55	4.60	....	....
No. 14	1.60	4.60	....	....
No. 16	1.65	4.70	2.35	5.25
Nos. 18 and 20	1.70	4.85	2.40	5.40
Nos. 22 and 24	1.75	4.95	2.45	5.55
No. 26	1.80	5.20	2.50	5.70
No. 27	1.85	5.35	2.55	5.85
No. 28	1.90	5.50	2.60	6.00

*Quotations nominal.

Steel Sheet Piling—Prices are somewhat higher, at $1.55 to $1.60 per 100 lb. f.o.b. Pittsburgh.

Old Materials—In all materials the market appears to be considerably better than a month ago. There have been numerous advances, and moreover, customers are asking for material. Holders of scrap are not disposed to let go of it at these prices. Then, with the advance in pig iron, foundrymen are coming into the market. In New York an advance of 50 to 75c. a ton in No. 1 machinery cast is noted, and stove plate is $1 per ton higher than a month ago.

	Per Gross Ton
Heavy-melting steel scrap	$9.00 to $9.25
Pipes and flues	8.25 to 8.50
No. 1 railroad wrought	10.50 to 10.75
Stove plate	8.75 to 9.25
No. 1 machinery cast	12.00 to 12.50
Wrought turnings	6.00 to 6.25

The principal news in Chicago market is much larger buying of heavy melting steel scrap. Prices are unchanged, but the demand is far more active. Then there has been an advance of 50c. per ton in agricultural malleable and one of 25c. per ton in railroad malleable.

	Per Gross Ton
Heavy-melting steel scrap	$9.50 to $9.75

	Per Net Ton
No. 1 railroad wrought	$9.00 to $9.25
No. 2 railroad wrought	8.25 to 8.75
No. 1 cast scrap	9.00 to 9.75
Pipes and flues	6.25 to 6.75
Agricultural malleable	7.75 to 8.00
Railroad malleable	8.50 to 8.75

The Pittsburgh market is dull. The demand does not seem to have reached there yet, and although there is an advance of 25c. a ton in foundry cast and a similar one in machine shop turnings, the general market is lifeless.

	Per Gross Ton
Heavy-melting steel scrap	$11.75
Rerolling rails	11.75 to 12.00
No. 1 foundry cast	12.25 to 12.50
Old car wheels	11.75 to 12.00
Machine shop turnings	8.00 to 8.25
Railroad malleable	10.50 to 10.75

Chain—Prices are steady and without change, as follows. These prices are per 100 lb., f.o.b. Pittsburgh:

⅜ in.	$7.50	½ and ⅝ in.	$3.00
½ in.	4.95	½ and ⅝ in.	2.90
⅝ in.	3.95	¾ and ⅞ in.	2.80
½ in.	3.40	⅞ and 1 in.	2.70
⅝ in.	3.20	1 to 1¼ in.	2.60

EXTRAS TO ABOVE LIST PER -00 POUNDS

	For BB	For BBB
⅜-in. and ¼-in.	$1.50	$2.00
⅜-in. and larger	1.25	1.75

Wire—The demand for wire is excellent, and it is practically impossible to secure any immediate delivery of barbed wire. Consequently, orders on this product are being turned down daily. Prices are extremely firm, $1.35@1.40 being asked for annealed fence wire, and $1.60 for painted barbed

wire. Galvanized barbed wire and fence staples are $2.40, but even at this price there is some uncertainty about getting deliveries. All of these prices are f.o.b. Pittsburgh and per 100 lb. Woven wire fencing is higher, being quoted at 79% off in carload lots, 68% in 1000-rod lots, and 67% in small lots, f.o.b. Pittsburgh.

Merchant Steel—Business continues to improve, especially for small lots from merchants' store. There has been no change in price, but it is probable that before the end of the month an advance of at least 5c. per 100 lb. will be made. Quotations from jobbers' store in New York are as follows:

	Cents Per Pound
Refined iron:	
1 to 1⅞ in., round and square	1.85
1½ to 4 in. x ⅜ to 1 in.	1.85
1½ to 4 in. x ¼ to ⅞ in.	2.05
Norway bars	3.20
Burdens bar iron	3.15
Soft steel:	
¾ to 3 in., round and square	1.85
1 to 6 in. x ⅜ to 1 in.	1.85
1 to 6 in. x ¼ and ⅛	2.00
Rods—⅝ and ½ in.	1.95
Bands—1½ to 6x¼ in. to No. 8.	2.15
Beams and channels—3 to 15 in.	1.90
Angles:	
3 in. x ¼ in. and larger	1.90
3 in. x ¼ in. and ⅛ in.	2.35
1½ to 2¾ in. x ¼ in. and thicker	2.00
1½ to 2½ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.10
1 to 1¼ in. x ⅛ in.	2.15
Tees:	
1½ to 2½x¼ in.	2.05
1½ to 2½x⅛ in.	2.15
3 in. and larger	1.95

Wire Rope—Business shows some increase, but the demand is not yet up to normal. Discounts are unchanged at 47 and 5% from list for galvanized, and 55 and 5% for bright. At these discounts the net prices of wire rope at the mills are as follows:

Diameter in Inches	Price per Foot—Cast Steel	Crucible Steel	Plow Steel
2½	$0.75	$0.90	$1.07
2¼	0.61	0.73	0.86
2	0.47	0.57	0.67
1¾	0.39	0.49	0.58
1½	0.28	0.34	0.40
1¼	0.20	0.24	0.27
1	0.13	0.15	0.18
¾	0.08	0.09	0.11
⅝	0.06	0.07	0.08

Freight Rates—The freight rates on finished steel products from the Pittsburgh district, including plates, structural shapes, merchant steel, bars, pipe fittings, plain and galvanized, wire nails, rivets, spikes, bolts, black sheets (except planished), chain, etc., are as follows, in cents per 100 lb.: Boston, 18.9c.; Buffalo, 11.6c.; Baltimore, 15.4c.; Cleveland, 10.5c.; Cincinnati, 15.8c.; Chicago, 18.9c.; Denver, Colo., 68.6c.; New Orleans, 30c.; New York, 16.9c.; Philadelphia, 15.9c.; St. Louis, 23.6c.; Minnesota and St. Paul, 32.9c.; Pacific Coast (all rail), 80c.

REINFORCING MATERIALS

Triangle Mesh—The demand shows a steady improvement. Prices are firm.

PRICE PER 100 SQ.FT.

Style No.	Cross Sec. Area per Ft. Width	Plain Material—Carload Lots	Plain Material—Less Than Car Lots and Over 10,000 Sq.Ft.	Galvanized—Carload Lots	Galvanized—Less Than Car Lots and Over 10,000 Sq.Ft.
†4	0.102	$1.00	$1.23	$1.12	$1.34
5	0.077	0.80	0.97	0.89	1.00
6	0.058	0.63	0.77	0.71	0.84
†7	0.041	0.49	0.60	0.55	0.66
†23	0.170	1.69	2.05	1.88	2.24
24	0.142	1.46	1.77	1.62	1.93
25	0.124	1.29	1.57	1.43	1.71
†26	0.110	1.17	1.42	1.30	1.55
†27	0.085	0.96	1.17	1.07	1.28
28	0.066	0.80	0.97	0.89	1.06
29	0.049	0.66	0.80	0.73	0.87
31	0.261	2.49	3.02	2.76	3.29
32	0.225	2.16	2.62	2.40	2.86
33	0.196	1.93	2.34	2.14	2.55
34	0.14c	1.48	1.80	1.64	1.96
35	0.109	1.117	1.42	1.30	1.55
36	0.075	0.87	1.05	0.97	1.15
38	0.380	3.55	4.30	3.93	4.68
†39	0.325	3.05	3.70	3.38	4.03
40	0.283	2.68	3.25	2.97	3.54
41	0.208	2.05	2.48	2.27	2.70
42	0.151	1.55	1.88	1.72	2.05
†43	0.101	1.10	1.34	1.23	1.46

Bars, Concrete Reinforcing—A tremendous amount of business is being done at the mills for the agricultural implement makers, which has resulted in higher prices. This carries with it an advanced quotation for reinforcing bars of $1 per ton at the same mills. The demand for reinforcing bars is not so active as for other bars, but it is far better than at any time in the last year. Prices are higher as stated and are quoted as follows:

Size	Cents per Pound—Mill Shipments Pittsburgh	*Warehouse Pittsburgh	Delivered from *Warehouse New York
¾-in. and larger	1.25	1.60	2.05 to 2.10
⅝-in.	1.30	1.75	2.10 to 2.15
½-in.	1.45	1.90	2.25 to 2.30
⅜-in.	1.55	2.00	2.35 to 2.40
¼-in.	1.83	2.30	2.70 to 2.75

*Bars from warehouse are cut to desired length without extra charge.

CLAY PRODUCTS

Sewer Pipe—There is a great deal of municipal work going on, and as a result quite a flood of inquires has been received. Sales as compared with the same period a year ago have shown an increase. However, prices remain unchanged, the following discounts still being effective: On 3 in. to 24 in., 80% off list; 27 to 30 in., 70%; 30 to 36 in., 65%. At these discounts, prices are as follows:

PRICE OF SEWER PIPE PER FOOT

Size		Size	
3-in.	$0.05	18-in.	$0.38
4-in.	0.05	20-in.	0.45
5-in.	0.08	22-in.	0.60
6-in.	0.08	24-in.	0.65
8-in.	0.11	27-in.	1.35
10-in.	0.16	30-in.	1.65
12-in.	0.20	33-in.	2.20
15-in.	0.27	36-in.	2.45

Flue Lining—The discount on this material remains unchanged at 80% off list. At this rate, prices are as follows:

FLUE LINING PRICE PER FOOT

Size	Weight in Lb.	Price per Ft.	Size	Weight in Lb.	Price per Ft.
4½x8½-in.	14	$0.07	8½x18-in.	45	$0.18
4½x13-in.	20	0.09	13x13-in.	45	0.17
7½x7½-in.	15	0.08	13x18-in.	57	0.24
8½x8½-in.	18	0.09	18x18-in.	75	0.40
8½x13-in.	28	0.13			

METALS

Copper—Dullness marked the refined copper trade more or less during the present month. At times however activity was apparent and prices have been maintained although a tendency toward lower prices was evidenced on more than one occasion. Stocks decreased 20,000,000 lb. during May and refineries are not increasing their output as rapidly as might be but a substantial increase in production is looked for in June. Important producers expect a renewed demand for electrolytic, as the nations at war are making inquiries for large amounts. Exports of copper since June first were 14,400 tons while imports at ports in the United States were 3140 tons of copper. Prices have fluctuated from 18¼ to 20½c. the latter price being the quotation at the close of the market on June 26.

Tin—Deliveries of tin into the New York market have been larger during June. The demand on the whole has been good and prices have remained high after the advance reported last month. England placed an embargo on shipments of tin plate to Denmark, Norway, Sweden and Holland resulting in maintaining prices. This caused consumers to make inquiries for both spot and future shipments. The statistical position of tin on July 1 is likely to be favorable as the outlook is that Atlantic Coast deliveries may reach 2800 tons and importations on the Pacific Coast about 1000 tons. This indicates heavy American consumption. The suggestion is made that advances made in prices in London, due to the embargo announcement will result in American producers entering the breach and supplying the neutral countries affected by the order. This should force American consumers to import larger stocks of tin. Spot tin is quoted at 41c., New York.

Lead—The market has been very active during the past month. Prices advanced steadily until June 15 since which time a slight reaction has developed. Italy has an inquiry out for 2000 tons and it is expected contracts will be closed soon. Prices went as high as 8c. but toward the end of the month the situation warranted prices on a basis of 5⅞ to 6c. Speculation entered into the rise and those who were responsible for the advance are now selling at the lower prices.

Spelter—Prices reacted after the sensational advance last month. The heavy buying resulted in an actual advance to 27c. This was mainly due to concentrated buying by American manufacturers. It is said that about 100,000 tons entered into the recent transactions. Toward the end of June the reaction brought spot spelter as low as 17c. to 18c. but many transactions involving small lots are reported at 20c.

MISCELLANEOUS

Railway Ties—Because of the long period of dullness in this market, dealers feel confident that the railroads will soon place some orders and expect that business will pick up during the month of July. First-class standard ties 7x9 in.x8 ft. 6 in. sell at 73c., and 6x8 in.x8 ft. at 60c., these prices being f.o.b. New York.

Asphaltum—A considerable amount of work is now being done in the State of Florida, and highway bonds for $1,200,000 have been issued in two of the counties. The price of Mexican asphaltum is $13.50 per net ton, packed in wooden barrels f.o.b. refineries.

Chemicals—The demand for ammunition has worked a revolution in the chemical industry and has caused some prices to go to almost unheard of levels. Calcium hypochlorite sells at 1¼c. to 1½c. per lb. f.o.b. maker's works. Alumina sulphate is strong and will continue at a high level as long as the phenomenal demand continues for sulphuric acid. The price is $1.65. For alumina ferric sulphate $1.50 is demanded. Liquid chlorine sells at 10c. per lb. maker's works.

RAILWAYS—STEAM AND ELECTRIC

Maine—Skowhegan & Athens Electric R.R.—Plans are being considered by this company for the construction of an electric railway from Skowhegan to Athens, about 12 miles. H. E. Trueworthy, George F. Ayer and James Chapman, Athens, are interested.

Massachusetts—Bay State St. Ry.—This company has applied to the City Council of Revere, Mass., for permission to reconstruct its line on Revere St. from Pierce to Bellevue St. R. S. Goff, Boston, is Vice-Pres. and Gen. Mgr.

✚★New York, N. Y.—(Borough of Queens)—(Official)—The contract for the grading and masonry work on Section 2 of the New York Connecting R.R. has been awarded to WILSON & ENGLISH, 50 Church St., New York, for the first section of this contract and to PATRICK McMANUS, INC., Philadelphia, Penn., for the second section. A. C. Shand, Broad St. Station, Philadelphia, is Ch. Engr., Southern Division. Noted May 20.

New York—The Chamber of Commerce, Troy, N. Y., is considering plans for the construction of an electric railway from Troy to Rensselaer.

New Jersey—Easton & Washington Traction Co.—Plans are being prepared by this company for the extension of its line to Hackettstown and Lake Hopatcong, about 19 miles. W. O. Hay, Easton, Penn., is Secy., Gen. Mgr. and Pur. Agt.

New Jersey—Public Service Ry.—This company has been granted permission to double track its line on Raritan Ave., Raritan, N. J. R. E. Danforth, Newark, is Gen. Mgr.

Pennsylvania—Pennsylvania R.R.—This company contemplates the construction of a new branch freight line into Steelton, Penn., along the bed of the old Pennsylvania Canal. A. C. Shand, Philadelphia, is Ch. Engr.

Maryland—Chesapeake & Curtis Bay R.R.—This company has been incorporated to construct a belt line from the pier of the United States Asphalt Refining Co., on the north side of Curtis Bay, northerly and easterly to the Baltimore & Ohio R.R. tracks in East Brooklyn, Baltimore. Richard D. Upham, New York, and J. Cookman Boyd, John H. Zink, G. Aubrey Beard and Richard B. Pue are the incorporators.

West Virginia—White Sulphur & Huntersville R.R.—This company plans to construct an electric railway to connect White Sulphur, Montague, Mapledale, Divide, Alvon and Shryock, about 27 miles. T. J. Shryock, Baltimore, Md., is Pres.

North Carolina—Statesville Air Line R.R.—Preliminary arrangements are being made and work will soon be started by this company on the construction of its proposed railway from Statesville to a point between Harmony and Houstonville. D. M. Ausley is Treas. and Gen. Mgr.

Georgia—North Georgia Mineral R.R.—This company is making surveys for the construction of a railway from Atlanta to Warfords Crossing. W. J. Morrison, Alex. C. King and J. J. Spalding, Atlanta, are interested.

Florida—W. S. Gardner, Secy., Arcadia Board of Trade, is negotiating with a view to the construction of a railway from Arcadia, via the Everglades to the eastern coast of Florida.

Florida—St. Petersburg & Gulf Ry.—This company contemplates the extension of its electric railway from St. Petersburg to Pinellas Park and Clearwater, Fla. W. M. Mosedale, St. Petersburg, is Ch. Engr.

Alabama—Peoples R.R.—Plans are being considered by this company for the extension of its line from Fairhope to Robertsdale, Ala., about 14 miles.

Alabama—W. W. Shortridge and associates have applied to the City Council of Birmingham, Ala., for a franchise to construct an electric railway from Birmingham to the Warrior River. Noted June 24.

✚Mississippi—Meridian & Memphis Ry.—This company has awarded a contract to C. G. KERSHAW & CO., Birmingham, Ala., for the completion of its line to Meridian.

Mississippi—Yazoo & Southern R.R.—This company has been organized to construct a railway from Yazoo City to Carthage, Miss., about 62 miles. George U. Nichols and S. Murphy, Chicago, Ill., are Dirs.

Kentucky—Charles Edwards, representing White & Co., Chicago, Ill., has secured the right-of-way from John W. Overall for the construction of an electric railway from Lebanon to Smithville. It is stated that the proposed railway will connect with the Nashville, Chattanooga & St. Louis Ry. at Lebanon, which will later be electrified.

✚Kentucky—Louisville & Nashville R.R.—This company has awarded a contract to GRANT MASON, Pineville, Ky., for the extension of its Martins Fork line to Grays Branch.

Ohio—Western Ohio R.R.—This company is considering plans for the extension of its electric railway from St. Marys to Minster, Ft. Loramie and Covington. J. W. S. Riegle, Findlay, is Ch. Engr.

Indiana—Public Utilities Co.—This company has been granted a franchise to extend its Main St. line in Evansville, Ind. A. C. Blinn, Evansville, is Vice-Pres. and Gen. Mgr.

Illinois—The residents of Stevensonville, a suburb of Bloomington, Ill., have petitioned the City Commission to construct an electric railway to that part of the city. A loop system by which the West Washington and Miller Park lines of the Bloomington St. Ry. can connect with a line through Stevensonville is proposed. A. G. Erickson, Comr., is trying to interest the Bloomington & Normal Ry. & Light Co. in the project.

Illinois—Aurora, Mendota & Western Traction Co.—The City Council of Aurora, Ill., has granted a franchise to this company to construct an electric railway through the city. This is part of a proposed line to connect Bristol, Plano, Sandwich, Leland, Earleville, Mendota and Princeton. Noted Apr. 15.

Illinois—Calhoun County Ry.—This company plans to construct an electric railway from Pearl to Golden Eagle, Ill. John E. Melick, Kampsville, is interested.

✚Illinois—New York, Chicago & St. Louis Ry.—The contract for filling on the Chicago track elevation work has been awarded by this company to P. T. CLIFFORD & SON, Valparaiso, Ind. E. E. Hart, Cleveland, Ohio, is Ch. Engr.

Kansas—Hutchinson Interurban Ry.—This company plans to extend its line on Second St. from Main to W[illegible] St., Hutchinson, Kan. James E. Humbert, Hutchinson, [illegible] Gen. Mgr. and Pur. Agt.

Kansas—Southwestern Interurban Ry.—This company plans to extend its electric railway from Winfield to Mirabright Gardens, near Oxford. S. M. Bradley, Winfield, is Ch. Engr.

Arkansas—A company is being organized to construct a railway from Huntsville Ark., to a connection with the St. Louis & San Francisco R.R., about 15 miles.

Arkansas—Boyd Mayo and D. J. Clotworthy, Turner, and J. F. Watkins, Postelle, are interested in a project to construct a railway from Turner to Postelle, Ark., about 10 miles.

Washington—A project to construct a belt railway to connect with the trackage of different piers owned by the Port of Seattle, is being considered by the Commission. J. H. West is Ch. Engr. of Comn.

Oregon—Oregon-Washington R.R. & Navigation Co.—Plans are being made by this company to construct an extension to its line from Riverside to Crane Creek Gap, Ore., about 30 miles. J. R. Holman, Portland, Ore., is Ch. Engr.

Oregon—Southern Pacific Co.—Plans are being considered by this company for the electrification of its line from Whiteson to Corvallis, Ore., about 43 miles. William Hood, San Francisco, Calif., is Ch. Engr.

California—Castro Point Ry. & Terminal Co.—This company has been granted permission to construct a two-mile railway along the waterfront in Richmond, Calif. Estimated cost, $90,000. Blake Bros. is interested.

California—Tidewater Southern Ry.—This company will extend its railway through Ceres to Turlock, Calif. J. H. Wallace, Stockton, is Ch. Engr.

Alberta—Athabasca & Ft. Vermilion Ry.—This company has started surveys for the construction of its proposed railway from Athabasca to Trout Lakes and Ft. Vermilion, about 300 miles. Noted Apr. 29.

Manitoba—H. W. Adcock, Winnipeg, is interested in the project to construct a gasoline-operated street car line from Winnipeg to Transcona.

LIGHT, HEAT AND POWER

Sorrento, Maine—It is reported that the town is considering the installation of an electric-lighting system.

Brandon, Vt.—It is reported that the Hortonia Power Co., Brandon, has applied to the Public Service Commission for authority to increase its capital stock, and to issue $600,000 in bonds. The company plans to build a power house in Hortonville.

Hartford, Conn.—The Hartford Electric Light Co. has taken out a permit for the construction of a brick and steel substation on Vandyke Ave. The estimated cost is $7000.

Felts Mills, N. Y.—(Official)—See item under "Miscellaneous."

✚New York, N. Y.—(Borough of Bronx)—Bids were received June 21 by the Department of Education for heating and ventilating apparatus in new Public School 55, St. Paul's Pl. between Park and Washington Ave., Borough of the Bronx, as follows: Blake & Williams, $68,690; D. J. Rice, $70,653; Raisler Heating Co., $73,000; LESLIE & TRACY, 220 West 42d St., New York, $66,530 (awarded contract); Wells & Newton, $68,841.

Stockport, N. Y.—The Public Service Commission has granted a franchise to the Albany Southern R.R. Co. to build transmission lines and install a distribution system for furnishing electricity to the town of Stockport. George F. Silvia, Albany, is Elec. Supt. of the Albany Southern R.R. Co.

✚Philadelphia, Penn.—(Official)—The Board of Public Education has awarded contracts in connection with the construction of new wings to the John Hay School as follows: Heating and plumbing, S. FAITH & CO., 2427 Pennsylvania Ave., Philadelphia, at $15,777 and $3867 respectively; electrical work, J. F. BUCHANAN & CO., 1228 Race St., Philadelphia, $2666; ventilating, WALTERS, PURKS & MELLON, 1835 Ludlow St., Philadelphia, $1285. See item under "Buildings."

Smethport, Penn.—The Borough Council has granted a franchise to the Kane Electric Light & Power Co., Kane, to extend its transmission lines to Smethport to furnish electricity to the town.

Norton, Va.—It is reported that the Norton Coal Co. will rebuild its power house which was recently destroyed by fire at a loss of about $25,000.

Spring Hope, N. C.—The Eastern Carolina Light & Power Co., Spring Hope, will establish a hydro-electric plant on the Tar River, and will build transmission lines to several neighboring towns. The plant will eventually develop 2000 hp., the first installment to be a 250-hp. unit.

Tuscaloosa, Ala.—The Birmingham-Tuscaloosa Ry. & Utilities Co., Birmingham, plans to construct a gas holder with a capacity of 100,000 cu.ft., in Tuscaloosa. The company will also lay new mains.

★New Orleans, La.—The lowest bid received June 9 by the Board of Commissioners, Port of New Orleans, for electric cranes for the cotton warehouses was that of the Hauling Co., of Milwaukee, Milwaukee, Wis., at $65,800. Bids were received at the same time for three horizontal boilers for the cotton warehouse from: John H. Murphy Iron Works, $6440; Walsh & Weidner Boiler Co., $6190; Casey-Hagis Co., Chattanooga, Tenn., $7200; A. Baldwin & Co., Ltd., $8038. Bids were referred to the consulting engineers. Noted May 27.

Batesville, Ind.—See item under "Water Supply-Irrigation."

Elgin, Ill.—James B. Dibelka, State Arch., 130 North Fifth Ave., Chicago, is reported to be preparing plans for the construction of a power house for the State Hospital at Elgin.

Mechanicsburg, Ill.—It is reported that the Decatur Ry. & Light Co., Decatur, will extend its lines to Mechanicsburg to supply electricity to the town.

Wautoma, Wis.—Bids will be received until 7:30 p.m., July 2, by C. T. Taylor, Clk. of School Bd., for heating plant for the public school building. W. G. Kirchoffer, Madison, is Engr.

Wilton Junction, Iowa—(Official)—The City of Wilton contemplates the installation of additional generating machinery in the municipal electric-light plant. David G. Fisher & Co., Davenport, is Engr.-in-Charge. Noted May 27.

Lakefield, Minn.—The citizens have voted to issue $31,000 in bonds for the purpose of installing an electric-light and power plant.

Warren, Minn.—The Electric Light & Water Commission is considering plans to double the output of the municipal electric-light plant. W. R. Haney is Mgr., Supt. and Cont. Agt. of the plant.

Burlington, Kan.—The Excelsior Milling Co., Burlington, is considering the establishment of a hydro-electric plant on the Neosho River.

Bosworth, Mo.—Henrici, Kent & Lowry, Reserve Bank Bldg., Kansas City, has been engaged to prepare plans for the construction of the proposed electric light plant in Bosworth.

Rule, Tex.—The Board of Local Improvements is considering the installation of an electric-light plant in Rule. The estimated cost is $10,000.

Boswell, Okla.—The town is considering the installation of a municipal electric-light plant. The estimated cost is $14,000.

Bracebridge, Ont.—It is reported that the Hydro-Electric Commission, Bracebridge, will rebuild its dam at Bayville, Ont. The estimated cost of the work is $12,000.

Penticton, B. C.—It is reported that the city will spend about $6000 in improving and extending the electric-lighting system.

BRIDGES

Enosburg Falls, Vt.—(A correction)—We are advised that in the list of bidders for a bridge at Enosburg Falls, noted in the issue of June 17, the bid given as that of the Concrete-Steel Engineering Co., at $12,045, should have been credited to the Rennell Construction Co., New York. The Concrete-Steel Engineering Co. is consulting engineer only.

Boston, Mass.—Press reports state that the Boston Elevated Ry. Co. plans to construct a railway bridge over the Mystic River.

Bridgeport, Conn.—At the election held June 20 the citizens voted in favor of constructing bridges at East Washington Ave. and Grand St.

✚Manchester, Conn.—The contract has been awarded to the STANDARD ENGINEERING CO., Albany, N. Y., for the construction of a bridge over the Hockanun River.

New York, N. Y.—(Borough of Bronx)—The War Department has authorized the Public Service Commission to build a new bridge across the Bronx River at Westchester Ave. The plans call for a bridge with a clearance of 61 ft. above mean high water. The river above Westchester Ave. will be closed to navigation by masted vessels unable to pass under the proposed bridge. F. J. H. Kracke is Comr. of Bridges. Noted June 17.

Utica, N. Y.—The City Council has voted to construct bridges over the Mohawk River, at North Genesee St. and Miller Rd.

Trenton, N. J.—The New Jersey Harbor Commission has filed a report with the United States Army Engineers condemning the old Central R.R. bridge over Newark Bay connecting Elizabeth and Bayonne. To replace the present bridge would cost the railroad approximately $2,000,000.

Easton, Penn.—Bids will be received until July 2 by the Board of Commissioners of Northampton County for the construction of County Bridge No. 179, over Oughoughton Creek in Washington Township. H. C. Dilliard is County Engr.

✚Grove City, Penn.—(Official)—The Board of Commissioners of Mercer County has awarded the contract for the construction of the Pine Ave. Bridge over Wolf Creek, Grove City, to the PENN BRIDGE CO., Beaver Falls, at $6150. Other bidders were: Canton Bridge Co., Canton, Ohio, $7987; Farris Bridge Co., Pittsburgh, $7541; T. F. Hungiville, Smethport, $8120; F. S. Wilson, Kittanning, $7874. H. C. Comstock is Clk. of Comrs. Noted June 10.

★Philadelphia, Penn.—(Official)—Bids will be received until noon, July 8, by M. L. Cooke, Dir. Dept. of Pub. Wks., for the construction of three bridges, one each on line of Fifth St., Third St. and Fisher Ave. Plans and specifications are on file at the office of "Engineering News," 36th St. and 10th Ave.

Scranton, Penn.—Press reports state that Charles E. Ryder, Ch. Engr. of the State Water Supply Comn., has recommended that the Delaware & Hudson Co. be compelled to rebuild its South Washington Ave. railway bridge. The bridge is too low, and fails to conform in other respects to the specifications of the Water Supply Commission. The approximate cost was $25,000.

Somerset, Penn.—Bids will be received until 1:30 p.m., July 7, by the Board of Commissioners of Somerset County for the construction of five stone or concrete bridges. Jacob Koonta is County Controller.

Bowling Green, Va.—(Official)—Bids will be received until noon, July 8, by the Board of Supervisors of Caroline County for the construction of the following bridges: One 145-ft. steel bridge over the South River; a 44-ft. span over Temples Mill Stream; a 36-ft. span over Big Swamp, and a 60-ft. bridge over Smoots Mill Pond. The last three will be of reinforced concrete with plain concrete substructures. G. P. Coleman, Richmond, is State Highway Comr.

Richmond, Va.—Bids will be received until 11 a.m., July 8, by G. P. Coleman, State Highway Comr., for the construction of a 71-ft. steel bridge over the Cranes Nest River between Wise and Dickenson Counties, and an 81-ft. bridge over the Cranes Nest River in Dickenson County.

Huntington, W. Va.—Bids will be received until July 6 by the Cabell County Court for the construction of a bridge over the right-of-way of the Chesapeake & Ohio Ry. near Mud River.

Lewisburg, W. Va.—Press reports state that bids will be received until July 6 by J. S. Crawford, Clk. of County Court, for constructing three concrete or steel bridges, two 20-ft. and one 16-ft. span.

Gulfport, Miss.—Bids will be received until July 5 by John J. Murphy, Clk. Bd. Supv., for constructing Rutland Bridge over the Big Biloxi River near Wortham on the public road from Gulfport to Bend.

Knoxville, Tenn.—Press reports state that the Commissioners of Knox County contemplate an expenditure of $21,700 for repairing county bridges.

Frankfort, Ky.—Bids will be received until July 6 by the County Clerk for constructing a 70-ft. steel bridge, 16-ft. wide, f.o.b., Paducah.

✚Cincinnati, Ohio—The contract for the construction of the Park Ave. Bridge over Kemper Lane has been awarded to D. P. FOLEY, Cincinnati, at $125,355. Noted May 20 and June 17.

✚Cleveland, Ohio—The Board of Control has awarded the contract for the construction of a concrete culvert over Doan Brook in Rockefeller Park to C. A. WHITE CO., at $15,300.

Cleveland, Ohio—Bids will be received until 10 a.m., July 14, by E. G. Krause, Clk. of the Cuyahoga County Comrs., for the construction of a reinforced-concrete pipe bulkhead, per report No. 3537. W. A. Stinchcomb is Engr.

✚Dayton, Ohio—The Board of Commissioners of Montgomery County has awarded contracts for the Harshmanville Bridge over the Mad River to FRANCIS MINNIGAN, at $11,883 for the concrete substructure, and to the CENTRAL STATES BRIDGE CO., Indianapolis, Ind., at $11,100 for the steel superstructure.

Youngstown, Ohio—(Official)—Bids will be received until 10 a.m., July 14, by the Board of Commissioners of Mahoning County for repairing and rebuilding the pavement of the South Ave. Bridge, Youngstown. Frank H. Vogan is Clk. of Comrs.

✚Brownsville, Ind.—(Official)—The Board of Commissioners of Union County, Liberty, has awarded the contract for the construction of an extension and approach to a bridge over the Whitewater River at Brownsville to the VINCENNES BRIDGE CO., Vincennes, at $7084. Noted June 17,.

Fowler, Ind.—Bids will be received until July 6 by the Commissioners of Benton County for the construction of three concrete bridges. W. Mankey is County Audr.

Indianapolis, Ind.—The Board of Public Works has approved plans of the Candalia R.R. for the extension of the Vincennes and St. Louis Division Bridges across the White River.

✚Grand Rapids, Mich.—The Board of Public Works has awarded contracts for the construction of the Coldbrook Creek Culvert and a bridge at First St., N. W., to the CARPENTER CONSTRUCTION CO., at $3800 and $2433 respectively.

Lansing, Mich.—(Official)—Bids will be received until noon, July 9, by Frank F. Rogers, State Highway Comr., Lansing, for the construction of six trunk line highway bridges, from 40 to 130 ft. long.

Sioux City, Iowa—The City Council contemplates the construction of a concrete bridge over the Sioux River at North Riverside.

Hartland, Minn.—Bids will be received until July 12 by Frederick Tavis, County Audr., for the construction of State Bridge No. 1814, including the removal of the present bridge and the maintenance of a temporary crossing.

✚Kansas City, Kan.—The City Commissioners have awarded the contract for the construction of a reinforced-concrete viaduct at 18th St. over the Union Pacific, and the Chicago, Rock Island & Pacific R.R. to the AMERICAN STEEL CO., at $115,800.

Madison, Neb.—Bids will be received until 1 p.m., July 6, by the Board of Commissioners of Madison County for the construction of one 60-ft. and one 24-ft. bridge, both in Fairview Precinct. W. T. Hodson is County Clk.

Bismarck, N. D.—Bids will be received until July 8 by T. E. Flaherty, County Clk., for the construction of seven reinforced-concrete culverts.

Jamestown, N. D.—Bids will be received until July 2 by Andrew Blewitt, County Clk., for the construction of reinforced-concrete culverts.

Williston, N. D.—Bids will be received until July 15 by M. H. Aaon, County Audr., for the construction of bridges for one year.

✚Jefferson City, Mo.—The Commissioners of Cole County have awarded the contract for constructing a bridge across the Moniteau River west of Marion between Cole and Moniteau Counties to the KANSAS CITY BRIDGE CO., Kansas City, at $5779. Other bidders were: Miller & Borcherding, St. Louis, $6500; Missouri Bridge & Iron Co., $6285; Illinois Steel Bridge Co., $5978; Vincennes Bridge Co., $5876.

Dallas, Tex.—An election will be held July 24 to vote on the question of issuing $150,000 in bonds. The proceeds will be used for the construction of a bridge across the Trinity River at the Commerce St. Crossing. Noted June 24.

Ft. Worth Tex.—The Commissioners Court of Tarrant County contemplates an expenditure of approximately $8000 for the reconstruction of the Park St. Bridge.

✚Houston, Tex.—The contract for the construction of a railroad bridge over the Brazos River for the Houston, Richmond & Western Traction Co. has been awarded to the FEDERAL BRIDGE CO., Des Moines, Iowa, at $56,000.

✚Laredo, Tex.—(Official)—The Street and Bridge Committee of the City Council has awarded the contract for the construction of two reinforced-concrete bridges over Zacate and Chacon Creeks to A. G. RANNEY, San Antonio, at $11,555. Other bidders were: Topeka Bridge & Iron Co., $12,251; Mas & Vasquin, $13,250; C. Jeffries, $15,300. J. S. Westbrook is Chn. of Com. Noted June 3.

Challis, Idaho—At a recent election the citizens of Custer County voted in favor of issuing $35,000 in bonds, the proceeds of which will be used for constructing five steel bridges.

✚Mayfield, Wash.—(Official)—The contract for constructing the steel bridge across the Cowlitz River at Mayfield has been awarded to the BEERS BLDG. CO., Portland, Ore., at $28,888. In all, 21 bids were received. Noted Jan. 28 and June 3.

Seattle, Wash.—The Board of Public Works has instructed the City Engineering Department to begin the construction, by day labor, on the approaches of the Salmon Bay Bridge across the Lake Washington Canal. The City Council has appropriated $90,000 for the work. Noted June 10 and 17.

Seattle, Wash.—Bids will be received until 10 a.m., July 12, by the Board of Commissioners of King County for the construction of the Fall City Bridge. It will be of steel with concrete piers. The estimated cost is $27,000. A. P. Denton is County Engr. Byron Phelps is Clk. of Comrs.

COLUMBIA RIVER INTERTSTATE BRIDGE

The itemized bids for various contracts awarded for the construction of the Interstate Bridge, illustrated on p. 1218, "Engineering News," June 24, across the Columbia River, connecting Portland, Ore., and Vancouver, Wash., are as follows:

Superstructure metal work of the main river bridge—

United States Steel Products Co.		Porter Bros.	
Manufacture and Delivery		Erection	
12,924,000 lb. truss spans	2.59c.	12,924,000 lb. truss spans	0.55c.
822,000 lb. towers	3.43c.	822,000 lb. towers	0.90c.
620,000 lb. rails, etc.	2.755c.	620,000 lb. rails, etc.	0.40c.
318,000 lb. sheaves	10c.	318,000 sheaves	1.25c.
2 motors (lump sum)	$4325	2 motors (lump sum)	$200
6 switchboards (lump sum)	456	6 gasoline engines	200
7 gasoline engines (lump sum)	728	Electric wiring (lump sum)	3100
		Operator's house	2100
		Gate tender's house	700
		621 cu.yd. counterweights	14
Extended totals	$417,316	Extended totals	$99,829

Superstructure metal work to sloughs—

Northwest Steel Co.		Porter Bros.	
Manufacture and Delivery		Erection	
3,191,000 lb. metal	2.55c.	3,191,000 lb. metal	0.55c.
259,000 lb. rails	3.00c.	259,000 lb. rails	0.40c.
Extended totals	$89,140	Extended totals	$18,886

Substructure—Pacific Bridge Co.

Main River Bridge		Sloughs	
53,50 cu. pier shafts	$9.00	2480 cu.yd. pier shafts	$10.00
109,000 lb. reinforcing metal	.03	34,000 lb. reinforcing metal	.04
15,810 cu.yd. bases	12.00	2000 cu.yd. bases	16.00
418 cu.yd. buried piers	12.00	894 cu.yd. buried piers	16.00
77,900 lin.ft. piles	.46	58,100 lin.ft. piles	.35
5900 lin.ft. dolphins	9.25	11,000 cu.yd. riprap	2.00
105 M. ft. b.m. timber ferry	30.00	21,000 sq.ft. mattress	.50
16,000 cu.yd. riprap	2.05		
34,000 sq.yd. mattress	.70		
Extended totals (Riprap)	$319,415	Extended totals (Riprap)	$119,579
(Mattress)	310,825		

Embankment of Union Ave. Approach—United States Steel Products Co.

93,000 cu.yd. embankment in place	$1.324
3000 cu.yd. ditches	.25
38,000 sq.yd. slabs	.80
1900 cu.yd. rock fills	2.00
Extended totals	$158,214

Reinforced-Concrete Floor and Pavement on Steel Structures—Porter Bros.

21,264 sq.yd. bitulithic pavement	$3.48
3254 sq.yd. sidewalk slabs	2.10
21 cu.yd. hand rails	30.00
2 bronze lamp standards	44.00
Extended totals	$82,803

✚Lebanon, Ore.—(Official)—The contract for the construction of a bridge across the South Forks of the Santiam River has been awarded to the PACIFIC IRON WORKS, Portland, at $13,461. Other bids were: Portland Bridge Co., $14,200; Beers Bldg. Co., $14,776; Illinois Steel Bridge Co., $15,380; Portland Bridge & Iron Co., $15,506; E. E. Davis Co., $16,386; A. C. O'Neil, $16,694. Noted June 17.

Portland, Ore.—The City Engineer is preparing plans for the construction of the Union Ave. Viaduct over the tracks of the Oregon-Washington R.R. & Navigation Co. The estimated cost is $50,000.

Hanford, Calif.—Bids will be received until July 6 by the Clerk of the Board of Supervisors for the construction of a reinforced-concrete bridge over the Cross Creek.

✚Martinez, Calif.—The contract for the construction of a drawbridge on Borden Rd. over the San Joaquin River has been awarded to the TIBBITS-PACIFIC CO., San Francisco, at $140,000.

Meridian, Calif.—Press reports state that bids will be asked at once for rebuilding the bridge of the Northern Electric Co. across the Sacramento River at Meridian. The bridge was damaged by floods last winter. The estimated cost of repairs is $75,000, which will be divided among the railway companies, Sutter and Colusa Counties.

★Needles, Calif.—The following are the bids received by Cate Sells, Comr. of Indian Affairs, Washington, D. C., for the construction of a steel bridge over the Colorado River at Topock, Ariz., near Needles: Kansas City Structural Steel Co., Kansas City, Mo., $61,950; Ross Construction Co., Sacramento, Calif., $94,872; Security Construction Co., Los Angeles, Calif., $71,859; Graff Construction Co., Seattle, Wash., $83,1[illegible] S. B. Harding, Chicago, Ill., $78,900 (informal); Virginia Bridge Co., Roanoke, Va., $70,100; Missouri Valley Bridge & Iron Co., Leavenworth, Kan., $71,100; Omaha Structural Steel Works, Omaha, Neb., $85,334; California Construction Co., San Francisco, Calif., $72,500; Midland Bridge Co., Kansas City, Mo., $73,900. Noted Apr. 15 and June 3.

San Jose, Calif.—Bids will be received by the Board of Supervisors, Santa Clara County, until July 6 for the construction of concrete bridges over Permanente Creek, San Thomas Creek and Calabasas Creek on the Homestead Rd. H. A. Pfister is Clk. of Bd.

✚Santa Rosa, Calif.—The Board of Supervisors of Sonoma County has awarded the contract for the construction of a bridge over Dry Creek to D. E. ALBERS, at $8691.

North Timiskaming, Que.—Bids will be received until July 12 by R. C. Desrochers, Secy., Dept. of Pub. Wks., for the construction of the superstructure of a four span bridge over the Quinze River.

Lansing, Ont.—The York Township Council is considering plans for the construction of a concrete bridge on Lansing Side Rd., at an estimated cost of $5000.

✚Toronto, Ont.—The Board of Control has awarded the contract for the construction of the concrete substructure and the floor of the Strachan Ave. Bridge to RODERICK CAMPBELL, at $23,045, and the contract for the steel superstructure to the DOMINION BRIDGE CO., at $5091. Noted June 10.

Dauphin, Man.—Bids will soon be received for the construction of a 100- or a 150-ft. reinforced-concrete bridge over the Valley River. J. A. Gorley is Clk.

WATER SUPPLY—IRRIGATION

Athol, Mass.—The construction of a 3,000,000-gal. reservoir is favored by Herbert L. Hapgood, Chn. Water Comrs.

✚Dartmouth, Mass.—The contract has been awarded to A. WILLIAMS & CO., 3 Catting St., Boston, at $33,153, for furnishing and laying water mains. Noted Oct. 8.

✚★Barker, N. Y.—The contract has been awarded to B. MOLINARI & CO., 453 North St., Rochester, at $19,780, for laying 4½ miles of c.-i. water mains, standpipe and sand filter, and reservoir. Charles C. Hopkins, Cutler Bldg., Rochester, is Engr. Noted Feb. 11 and Apr. 1.

Lewiston, N. Y.—According to press reports an election will be held to vote on the question of issuing $39,000 in bonds, the proceeds of which will be used for the construction of fire protection and a water-supply system. Noted Feb. 25.

Lockport, N. Y.—All bids received June 7 by the Board of Water Commissioners for laying water mains were rejected. Noted June 24.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., July 7, by Charles Strauss, Pres., Bd. of Water Supply, Municipal Bldg., for erecting at shafts No. 11 and 21, Catskill Aqueduct, drainage equipment for unwatering the tunnel and its shafts.

New York, N. Y.—(Official)—Bids will be received until 11 a.m., July 7, by Charles Strauss, Pres. Bd. of Water Supply, Municipal Bldg., for furnishing, delivering and installing racks, shutters, screens, lifters and other apparatus in gate chambers at Ashokan, Kensico and Hill View reservoirs.

★New York, N. Y.—(Official)—Bids were received June 22 for constructing a coagulating plant in Mt. Pleasant under Contract No. 159, as follows: Guarantee Construction Co., 140 Cedar St., New York, $21,480; James McArthur Co., $32,875; F. N. Lewis, $27,150; Snare & Triest, $29,850; M. L. Bird, $37,000; H. H. Vought & Co., $21,871; N. E. Construction Co., $29,327; Charles Meads, $27,117. Noted June 10.

New York, N. Y.—(Official)—Bids were received June 22 by the Board of Water Supply for furnishing and delivering and installing bronze or steel ladders and nozzles from Charles Meads, $23,280, and the Concord Construction Co., 38 Park Row, New York, $22,565. Noted June 10.

✚New York, N. Y.—(Boroughs of Manhattan and the Bronx)—(Official)—The contract has been awarded to the BUILDERS' IRON FOUNDRY, Providence, R. I., at $18,850, by the Department of Water Supply, Gas and Electricity for furnishing venturi meter tubes and recording apparatus for connections from the Catskill supply. Noted June 24.

New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by William Williams, Comr., Water Supply, Gas and Electricity, Municipal Bldg., Manhattan, until 2 p.m., July 12, for making the necessary alterations and improvements at new Utrecht Pumping Station, Ave. V and East 14th St., and converting same into a distribution station.

Patchogue, N. Y.—The citizens contemplate establishing a fire district in West Patchogue at an estimated cost of $60,000. Walter E. Sexton, Mineola, is Engr.

✚★Lock Haven, Penn.—(Official)—Bids were received June 14 for constructing storage dam No. 1 on McElhattan Run, as follows: CHARLES DUGAN, Williamsport, $8716 (awarded contract); C. J. Carroll, $10,976; John C. Schrade, $11,407; McNervey Construction Co., $10,903; R. B. Taylor, $852[illegible]; Otto Paving & Construction Co., $10,792; E. C. Williams, $11,276; Fogel & Co., $10,078; Cecil N. Harrart, $8849; Horn & Devling, $11,340. H. P. Shoemaker is City Engr. Noted May 27.

✚Frederick, Md.—The contract has been awarded to BRADY BROS., Frostburg, at $4153, by the city for constructping a pipe line from Fishing Creek to the city. Contracts for pipe and valves were awarded to R. D. WOOD & CO., Philadelphia, Penn., for valves and to H. C. BROOKS, Martinsburg, W. Va., at $11,304 for pipe. Noted Oct. 29 and May 13.

Matewan, W. Va.—Bonds for $12,000 have been voted by the citizens, part of the proceeds of which will be used for the construction of a filtration plant. J. S. Albert is Town Recdr.

✚Walterboro, S. C.—The contract has been awarded to the HUGHES ARTESIAN WELL CO., Charleston, for driving a 1600 ft. artesian well and for pipe. Noted Feb. 18 and Apr. 22.

Cartersville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $5000 in bonds, the proceeds of which will be used for the extension of the water and fire protection systems. W. W. Doniel is City Engr.

Dawson, Ga.—The citizens voted against issuing $20,000 in bonds, the proceeds of which was to have been used for the extension of the water system. Noted May 27.

McGhee, Ala.—Improvements will be made to the water system and electric-light plant at an estimated cost of $65,000, bonds for which have been voted. J. J. Simmons is Mayor. Noted Mar. 25.

Maryville, Tenn.—Bids will be received until July 7 by the city for the construction of a water system including a filtration plant. Samuel Everett is Mayor and R. C. Huston & Co., Falls Bldg., Memphis, is Engr. Noted Mar. 25 and Apr. 29.

Ashtabula, Ohio—The Council contemplates issuing bonds for $250,000, the proceeds of which will be used for the construction of a water system.

†Cincinnati, Ohio—(Official)—The contract has been awarded to M. J. McCARTHY, Cincinnati, at $23,735, for laying water mains in Eighth St., Broadway and Reading Rd. for the high pressure fire service. Other bidders were: Kirchner Sons Co., $26,090; H. V. Crumley, $29,100; M. F. Quill, $28,370; Thomas P. Strack, $32,245. Edward P. Durr is Secy., Dept. of Pub. Safety. Noted June 17.

†Cincinnati, Ohio—The contract has been awarded to M. F. QUILL, Cincinnati, at $24,324, by the city for laying c.-i. water mains in Tennessee Ave. Noted June 17.

†Cleveland, Ohio—The contract has been awarded to the CLEVELAND MACADAM CO., at $20,450, by the Board of Control for furnishing sand and gravel for the Division Ave. filtration plant. Noted May 6.

East Liverpool, Ohio—(Official)—It is stated that bids will be received in July for the construction of a water system. Bonds for $375,000 have been voted. Chester & Fleming, Pittsburgh, Penn., is Engr. Noted June 3.

Grafton, Ohio—It is reported that C. J. Fitzgerald, Elyria, is interested in the construction of a water system.

Shadyside, Ohio—Bids will be received until July 9 by the Board of Trustees of Public Affairs for constructing a water system. Fred McConn is Clk. Noted Feb. 25.

Batesville, Ind.—Bids will be received until 2 p.m., July 2, by the Batesville Water-Works Co. for constructing an earth dam 250 ft. long by 12 ft. high with a reinforced-concrete face and for laying 5000 ft. of 8-in. c.-i. water mains and constructing 9000 ft. of electric transmission line. Charles Brossmann, Indianapolis, is Engr. Noted June 4.

Mancelona, Mich.—Bonds for $15,000 have been voted by the citizens, the proceeds of which will be used for the construction of a water system.

Atkinson, Ill.—A. M. Morgan, Chicago, is preparing plans for the construction of a water system. The estimated cost is $18,000.

Chicago, Ill.—Bids will be received until 11 a.m., July 8, by the Department of Public Works for furnishing a water-tube boiler with super-heaters at Central Park Ave. pumping station No. 5.

Warsaw, Ill.—Extensions will be made to the water system at an estimated cost of $19,000. A. M. Morgan, Chicago, is Engr.

†Fond du Lac, Wis.—The contract has been awarded to the AMERICAN CAST IRON PIPE CO., Minneapolis, Minn., at $16,000, for furnishing c.-i. water pipe.

Madison, Wis.—The Water Department contemplates laying feeder mains at an estimated cost of $10,000.

Sauk City, Wis.—The citizens contemplate spending $10,000 for the construction of a water system.

Charlton, Iowa—Plans have been prepared by M. G. Hall, Centerville, for the construction of a water system. The estimated cost is $65,000. Noted Oct. 1.

Ft. Dodge, Iowa—The city contemplates calling an election to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the improvement of the water system. W. L. Tang is City Clk.

Keota, Iowa—C. P. Chase, Clinton, is preparing plans for the construction of a water system.

†Aurora, Minn.—Contracts have been awarded to SHARP & McGUIRE for drilling a 10-in. well and to MICHAEL BOYLAN, Virginia, at $9480, for laying water mains.

†Campbell, Minn.—(Official)—The contract has been awarded to WARD & WEIGHTON, Sioux City, Iowa, at $4180, for constructing a pressure water system. J. F. Druar, Commercial Bldg., St. Paul, is Consult. Engr.

Duluth, Minn.—The Buffalo Meter Co., Buffalo, N. Y., at $4320, was low bidder for furnishing 800 water meters. Noted June 10.

†Moorehead, Minn.—(Official)—The contract has been awarded to the AMERICAN BRIDGE CO., Minneapolis, at $18,000, by the City Clerk for constructing a 300,000-gal. elevated steel tower. Edward P. Burch, Plymouth Bldg., Minneapolis, is Consult. Engr. Noted June 17.

Thief River Falls, Minn.—Bids will be received until 8 p.m., July 6, by E. J. Overland, City Clk., for furnishing material and for the repair of 8000 ft. of 6-in. water mains.

Sterling, Neb.—The citizens voted against issuing bonds for $15,000, the proceeds of which was to have been used for the installation of a water system. Noted May 6 and June 10.

Canova, S. D.—(Official)—Bonds for $9500 have been sold, the proceeds of which will be used for the construction of a water system. H. H. Schulte is Town Clk. Noted May 20 and June 3.

Cheyenne, Wyo.—Bids will be received until noon, July 6, by J. J. Showalter, City Clk., for constructing a rapid-sand filtration plant at Round Top reservoir. The estimated cost is $70,000. R. D. Goodrich is City Engr.

Powell, Wyo.—Bids will be received until July 6 by W. A. Deming, Town Clk., for constructing a gravity water system. The work includes seven miles of 10-in. supply line and three miles of distribution lines. G. H. Setham, Denver, Colo., is Engr. Noted Nov. 5 and Mar. 18.

Fromberg, Mont.—Bonds for $17,500 have been voted by the citizens, the proceeds of which will be used for the construction of a water system. B. T. Ellis, Billings, is Engr. Noted Feb. 11 and Mar. 11.

Missoula, Mont.—An election will be held Aug. 3 to vote on the question of issuing $500,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted Feb. 11.

†Sidney, Mont.—The contract has been awarded to BENDON, REED & JONES, Sidney, at $17,413, by the Council for constructing a distributing system in Special Improvement District No. 1.

Wibaux, Mont.—(Official)—Bids will be received until 8 p.m., July 10, by J. R. Quammel, Town Clk., for the purchase of $27,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted June 6.

Beaumont, Tex.—Bids will be received until 10 a.m., July 14, for constructing a 30-in. c.-i. pipe line across Neches River and for other improvements. Burns & McDonnell, Kansas City, Mo., is Engr.

Elgin, Tex.—An election will be held July 16 to vote on the question of issuing $11,000 in bonds, the proceeds of which will be used for the construction of a water system. Noted June 24.

Claremore, Okla.—(Official)—The City Council has voted against issuing bonds for $10,000, the proceeds of which was to have been used for the installation of a filtration plant. Noted June 3.

Denver, Colo.—The Council will be asked by A. Lincoln Fellows, Pres. Pub. Utilities Comn., to appropriate $100,000 to make a survey for the construction of a new municipal water system.

St. Maries, Idaho—Plans are being prepared for the construction of a water system, the estimated cost of which is $30,000. Charles R. Schulte is City Clk. Noted Oct. 1.

†Salt Lake City, Utah—(Official)—The contract has been awarded to P. J. MORAN, INC., 152 West Second St., Salt Lake City, at $18,209, for constructing a reinforced-concrete reservoir. Other bidders were: J. W. Mellen, $18,284; John Holt, $18,975; Mullins & Palm, $19,360; O. H. Gray & Co., $19,487; Heuser, Sim & Vorkink, $19,765; Ryberg Bros., $21,129; Gibbons Bros. & Reed Parrott Bros. Co., $21,873; Campbell Building Co., $22,259; John Shea, $22,653; Lynch Construction Co., $23,004; Midland Bridge Co., $28,677. Noted June 17.

†Everett, Wash.—The Snohomish County Commissioners have warded the contract to GEORGE WRIGHT, Tacoma, for constructing an irrigation system in District No. 4, at $38,838. Other bids were: Tacoma Dredging Co., Tacoma, $35,991; West Chester Construction Co., Marion Block, Seattle, $39,393; Booker, Kiehl & Whipple, Central Bldg., Seattle, $39,996; Chamberlain Construction Co., Globe Bldg., Seattle, $40,111.

†Seattle, Wash.—The contract has been awarded to G. ARGENTIERI & CO., 989 Ranier Ave., at $10,000, for laying water mains in Fifth Ave. W. Noted June 24.

Bandon, Ore.—(Official)—Bonds for $80,000 have been voted by the citizens, the proceeds of which will be used for the extension of the water system. Noted June 3.

Eastside, Ore.—The installation of a municipal water system is under consideration. The estimated cost is $20,000.

North Bend, Ore.—The water rights of the Pony Inlet watershed will be acquired by the city to furnish water for the proposed municipal water system.

†Imperial, Calif.—(Official)—The contract has been awarded to W. J. BATTWICK, Imperial, at 11⅞c. per sq.ft. for constructing 41,809 sq.ft. of floor and lining for the irrigation system. Noted June 3.

McKittrick, Calif.—The Producers' Transportation Co. will install a 4-in. and 6-in. water main between Buttonwillow and Olig, about 13 miles.

†Pasadena, Calif.—The contract has been awarded to THEODORE L. SYCERTSON, 434 Maple Way, at $19,617, for making extensions to the water system in the Linda Vista District. Noted May 27 and June 24.

†★Peterboro, Ont.—(Official)—The contract has been awarded to the DELAVAL DAIRY SUPPLY CO., Petersboro, at $15,850, for furnishing a 6,000,000-gal. pumping unit for the water-works. Noted May 13.

†Selkirk, Man.—The contract for constructing a steel tower tank for the hospital for the insane has been awarded to the CHICAGO BRIDGE & IRON WORKS, Bridgeport, Ont., at $7300.

SEWERS

Portland, Maine—Bids will be received until July 6 by the Board of Public Works for the construction of 3710 ft. of 8-, 10- and 12-in. pipe sewers. The estimated cost is $18,000. B. Bradley, Jr., is Comr. of Pub. Wks. Noted June 17.

Derry, N. H.—The city will issue $25,000 in bonds, the proceeds of which will be used for the construction of a sewer system and a sewage-disposal plant. Dudley & Sawyer, Manchester, is Engr. Noted Apr. 1.

†Boston, Mass.—The contract for the construction of sewers and drains in Randolph and Rock Rd.; in Rosewood and Oakland St., Dorchester, has been awarded to JOHN GUARINO, at $6353. Noted June 3.

Pittsfield, Mass.—The Board of Aldermen has passed an ordinance appropriating $25,000 for the construction of sewers.

Westfield, Mass.—It is reported that bonds for $12,000 have been sold, the proceeds of which will be used for the construction of sewers. Noted June 3.

New Haven, Conn.—The city contemplates issuing $110,000 in bonds, the proceeds of which will be used for the construction of the Whalley Ave. sewer which provides for the construction of an outlet sewer system in the Westville School District. Noted Apr. 1.

Binghampton, N. Y.—The City Council has approved plans for sewer construction in the Fourth Ward.

Herkimer, N. Y.—Bonds for $30,000 have been sold. The proceeds will be used for the construction of extensions to the sewer system.

✚Newburg, N. Y.—The contract has been awarded to JAMES L. KEHOE, at $6204, for the construction of the Bridge St. sewer. Noted Apr. 22.

New York, N. Y.—(Borough of Bronx)—(Official)—Bids were received June 24 by the Borough President for the construction of sewers and appurtenances in Tyndall Ave. and for improving the roads in Mosholu Ave., as follows: Estates Contracting Co., $35,289; DiMinna & DeBlasio, $31,981; Soraci Contracting Co., $36,976; Delson Contracting Co., $33,852; Simon Russick, $32,831; P. DiMinna Contracting Co., $39,890; Spadaro Contracting Co., $30,461; Anita Contracting Co., $35,101; P. J. Duffy, $35,740; Harris-Rose Construction Co., $31,347; Kingsbridge Contracting Co., $40,667; O'Roth Contracting Co., $40,793; Gasperini & DeBasio, $34,497; Briggs & McLoughlin; $36,657; A. Mansini, $33,666; S. Amanna & Sons, $34,154.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., July 9, for constructing a tunnel relief sewer in East 41st St. and Madison Ave., also for improving sewer in Wall St.

New York, N. Y.—(Borough of Queens)—(Official)—Bids were received June 23 by Maurice E. Connolly, Borough Pres., for the construction of sewers and appurtenances in Polk Ave. from 51st St. to Junction Ave., Second Ward, as follows: Stanhope Contracting Co., $34,602; A. Paino, $32,190; Peace Bros., $36,843; Evergreene Construction Co., $34,595; C. Nally, $31,555; Lincoln Steel Co., $34,948; Clancy & Van Alst, $27,569. Noted June 17.

Port Washington, N. Y.—The city contemplates the construction of a sewer system. The estimated cost is $125,000.

Syracuse, N. Y.—(Official)—Bids will be received until 1:30 p.m., July 12, by Robert D. Roney, Secy. Bd. of Contract and Supply, for the construction of the Huntley System No. 2. The estimated cost is $112,000. W. Thomas Wooley is City Engr. Noted May 6.

Avalon, N. J.—Bids will be received until July 12 by Gilbert S. Smith, Mayor, for the construction of approximately 14,000 ft. of 12- to 20-in. c.i. or vitrified pipe sewers. Ralph L. Goff, Ocean City, is Engr.

Jersey City, N. J.—(Official)—Bids will be received until 2 p.m., July 6, by the Hudson County Park Commissioners for vitrified pipe and specials and c.i. catch basin heads for North Park and North Bergen.

Erie, Penn.—(Official)—The information published in the issue of June 17 was incorrect. The city proposes to issue bonds for the construction of a number of short lines of storm sewers, and for reconstructing several old sewers. B. E. Briggs is City Engr. Noted June 17.

✚Montrose, Penn.—(Official)—The contract for the construction of a sewage-disposal plant has been awarded to the NEW YORK SEWAGE DISPOSAL CO., New York, N. Y., at $7063. Noted June 24.

New Kensington, Penn.—An election will be held Aug. 3 to vote on the question of issuing $100,000 in bonds. The proceeds will be used for the construction of sewers and for street improvements.

Philadelphia, Penn.—Bids will be received until July 13 by the city for the enlargement and relocation of the sewers in Buttonwood St. in connection with the Broad St. Subway work. A Merritt Taylor, Dir. of Transit, is in charge. Noted Dec. 17.

Norfolk, Va.—An appropriation of $8000 has been authorized, the proceeds of which will be used for the construction of the Newton's Creek drain. W. T. Brooke is City Engr.

Matewan, W. Va.—Bonds for $12,000 have been voted, the proceeds of which will be used for the construction of sewers. J. S. Albert is Town Recdr.

Charlotte, N. C.—The city contemplates the construction of lateral sewers in various wards. The estimated cost is $141,-085.

Cartersville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $60,000 in bonds. The proceeds will be used for the construction of sewers. W. W. Daniel is City Engr. Noted June 24.

Savannah, Ga.—An election will soon be held to vote on the question of issuing $400,000 in bonds. The proceeds will be used for the construction of a storm water sewer system. E. R. Conant is Ch. Engr.

New Orleans, La.—The lowest bid submitted for the construction of a sewer system at the new cotton warehouses was that of L. M. Dalgarn, at $15,936. Ford, Bacon & Davis, New Orleans, is Engr.

Cleveland, Tenn.—(Official)—Bids will soon be received by the city for the construction of a sewer system. The estimated cost is $75,000. Walter G. Kirkpatrick is Engr. Noted June 24.

Knoxville, Tenn.—The city contemplates the construction of lateral sewer in the Tenth Ward. The estimated cost is $5000.

Cincinnati, Ohio—Bids will be received until noon, July 9, by Philip Fosdick, Dir. of Pub. Ser., for the construction of main and lateral sewers and drains with appurtenances in Seitz, Dorsey and Goethe St.

✚Cleveland, Ohio—The contract for the construction of sewers in Sandusky Ave. from East 93rd to East 102nd St. has been awarded to the LAKE ERIE PAVING & CONSTRUCTION CO., at $17,697. Noted June 24.

Cleveland, Ohio—Bids will be received until noon, July 7, by the Commissioner of Purchases and Supplies for the construction of approximately 7500 lin.ft. of 6-ft. brick sewers in tunnel, under two contracts. Robert Hoffman is City Engr.

✚Cleveland, Ohio—Contracts have been awarded by the Board of Control to WILLIAM McDOWELL & SON CO., at $17,000, for the construction of a sewer in Spring Rd., S. W., and to J. C. DEVINE CO., at $9500, for the construction of a diversion sewer, junction overflow, and grit chamber, also wooden flumes at the sewage treatment works, West 117th St. and Lake Shore.

Geneva, Ohio—Plans are being prepared by the City Engineer for the construction of sewers in Baline and Orchard St.

✚Frankfort, Ind.—(Official)—The contract for the construction of the South West District sanitary sewer, and the South West Local sanitary sewer has been awarded to C. C. HUFTINE & CO., Frankfort, at $2678 and $4348, respectively.

✚Logansport, Ind.—The contract for the construction of a sanitary sewer in Broadway has been awarded to GILLON & GIRTON, at $5752.

Markle, Ind.—Plans have been prepared by Thomas Goggles for the construction of a sewer system.

Muncie, Ind.—Bids will be received until 10 a.m., July 3, by the city for the sewer construction.

Winchester, Ind.—Bids will be received until 8 p.m., July 7, by M. R. Chenoweth, City Clk., for the construction of sewers in various streets.

Chicago, Ill.—Michael Pontarelli, 2349 Greenleaf Ave., and Henry J. McNichols, 209 South La Salle St., submitted the lowest bids for the construction of 14 miles of brick sewers in the Norwood and Edison Park Section, to be known as the Argyle St. sewer system. The estimated cost is $683,000. Noted June 3.

Peoria, Ill.—Bids will be received until July 12 by the Board of Local Improvements for the construction of the South End Sewer, East Section. The estimated cost is $221,-279. Noted Sept. 3.

Springfield, Ill.—The city contemplates the construction of sewers in various streets.

Warsaw, Ill.—Plans are being prepared by A. M. Morgan, Chicago, for the construction of a sewer system. The estimated cost is $28,500.

Sheboygan, Wis.—Bids will be received until July 2 by the Board of Public Works for the construction of 12,055 ft. of 12-, 10- and 8-in. vitrified pipe sewers. C. U. Boley is Comr. of Pub. Wks. Noted June 24.

Idagrove, Iowa—Plans are being prepared by G. Y. Skeels, Sioux City, for the construction of a sanitary sewer north of Odebolt Creek. The estimated cost is $7500.

Keokuk, Iowa—The city contemplates the construction of sanitary sewers in the Kilbourne's addition.

✚Duluth, Minn.—Contracts for material for sewer construction have been awarded to the DULUTH BUILDERS' SUPPLY CO., at $12,606, and the STANDARD SALT & CEMENT CO., at $12,726. Noted June 17.

Virginia, Minn.—The city contemplates the construction of storm sewers. The estimated cost is $35,000.

Hutchinson, Kan.—(Official)—Plans are being prepared by the City Engineering Department for a sewage pumping plant, and bids for the same will be called for in about two weeks.

Flandreau, S. D.—(Official)—Bonds for $4000 have been sold, the proceeds of which will be used for the construction of storm sewers. Noted June 17.

✚Sisseton, S. D.—(Official)—The contract for the construction of a sewer system and a sewage-disposal plant has been awarded to E. M. SCHEFELOW, Elgin, Ill., at $24,804. Other bids were: James Kennedy, Fargo, N. D., $29,744; Security Bridge Co., Billings, Mont., $29,768; Rimer Bros., St. Paul, Minn., $30,946; Kirtchers Bros., St. Paul, Minn., $32,518. Noted May 27.

Watertown, S. D.—Bids will be received in July for the construction of 18,500 ft. of 15-, 18-, 30- and 33-in. pipe sewers and 9700 ft. of 36-, 42- and 57-in. concrete sewers. The estimated cost is $110,000. F. W. Shreiber is City Engr. and O. M. Lane is City Audr. Noted May 27.

✚Bismark, N. D.—The contract for sewer construction in Broadway from 10th to 14th St. has been awarded to the HAGGART CONSTRUCTION CO., Fargo, at $15,108.

Chouteau, Mont.—The City Council contemplates sewer construction in District No. 6. The estimated cost is $4780. A. L. Powers is City Clk.

✚Sidney, Mont.—The contract for the construction of a main sewer has been awarded to BENDON, REEDS & JONES, Sidney, at $14,537.

Walkerville, Mont.—It is reported that the city contemplates the construction of a sewer system in the business and residence districts. The estimated cost is $25,000. M. Broughton is City Atty.

✚Italy, Tex.—The contract has been awarded to E. L. DALEON, Dallas, at $12,625, for the construction of a sewer system. Noted Mar. 11.

Marlin, Tex.—At a recent election the citizens voted to issue $45,000 in bonds. The proceeds will be used for the construction of sewers. L. Goodrich is City Engr. Noted Mar. 27.

Tulsa, Okla.—(Official)—At a recent election the citizens voted to issue $100,000 in bonds. The proceeds will be used for the construction of storm and sanitary sewers. Bids will be received about Sept. 1. T. C. Hughes is City Engr. Noted June 17.

Mountain View, Colo.—(Manitou post office)—Bids will be received until 8 p.m., July 6, by August Heimberger, Clk., for the construction of a sanitary sewer system. Peter O'Brian & Son, Denver, is Engr.

Steamboat Springs, Colo.—Plans are being prepared for the construction of a sanitary sewer system. The estimated cost is $70,000.

Trinidad, Colo.—Bids will soon be received for the sale of $75,000 in bonds. The proceeds will be used for the construction of trunk sewers and a sewage-disposal plant.

Mesa, Ariz.—The contract will be awarded about Sept. 1 for the construction of a sewer system. The estimated cost is $75,000. Noted June 24.

✚**Port Angles, Wash.**—The contract for the construction of a sewer system has been awarded to METLER & COYNE, Port Angeles, at $37,804. Noted June 24.

✚**Port Angeles, Wash.**—The contract for the construction of a sewer system has been awarded to H. A. COTTON, Port Angeles, at $38,404.

Albany, Ore.—The city will construct a main trunk sewer south in Cottage and Tekcna St. The estimated cost is $10,000.

Eugene, Ore.—Plans are being prepared by the Sewer Committee for the construction of a sewer system. The estimated cost is $15,000.

Auburn, Calif.—An election will soon be held to vote on the question of issuing $15,000 in bonds. The proceeds will be used for the improvement of the sewer system.

Imperial, Calif.—W. J. Bathric, Imperial, at $5032, submitted the lowest bid for the construction of a reinforced-concrete settling basin.

Wilmington, Calif.—Bids will be received until July 6 by the Board of Public Work for the construction of a frame pump house, 13x14 ft. over an existing concrete well, and for installing machinery at the sewage-disposal plant.

Peterboro, Ont.—Plans have been approved by the City Council for the construction of sewers in Westcott, Maude, Lansdown and Lafayette St. R. H. Parsons is Engr.

Toronto, Ont.—Bids will be received until July 6 by the Board of Control for the construction of sewers in various streets. R. C. Harris, City Hall, is Comr. of Pub. Wks.

✚**Vancouver, B. C.**—The contract has been awarded to H. P. PETERSON, 207 Holden Bldg., Vancouver, at $70,056, for the construction of the Clark Drive outfall sewer by tunnel method. Noted Apr. 22.

GARBAGE

★**Asbury Park, N. J.**—(Official)—Bids will be received until 11 a.m., July 13, by the Board of Commissioners for the collection, removal and disposal of garbage, rubbish, ashes and dead animals. Howard D. Le Roy is Comr.

Union, N. J.—(Weehawken post office)—(Official)—Bids will be received until 8 p.m., July 6, by the Town Council, for the removal of garbage for periods of one, two, three, four or five years. Emil Bantz is Town Clk.

East Chicago, Ind.—Bids will be received until July 16 by the City Clerk for constructing a garbage disposal plant.

Montreal, Que.—Bids will be received until July 15 by the City Council, according to press reports, for the construction of a garbage disposal plant. L. N. Senecal is Secy.

STREETS AND ROADS

✚**Bangor, Maine**—A contract for constructing a section of the State Highway has been awarded to SMALL & INGALLS, Bar Harbor. Noted June 10.

✚**Boston, Mass.**—The contract for laying bitulithic pavement on Ridgewood St. from Topliff to Draper St., Roxbury, has been awarded to JAMES DOHERTY, at $7659. Noted June 3.

✚**Boston, Mass.**—The contract for constructing a bituminous macadam roadway on Howitt Rd. from Bellevue to La Grange St. has been awarded to CHARLES J. JACOBS CO. Noted June 3.

★**Hartford, Conn.**—(Official)—Bids will be received until 2 p.m., July 2, by C. J. Bennett, State Highway Comr., for state road work as follows: Ashford Township, about 14,960 lin.ft. gravel on the Warrenville Rd. Bethel Township, about 6315 lin.ft. gravel on the Bridgeport-Newton Rd. Canterbury Township, about 5100 lin.ft. native stone macadam and about 1995 lin.ft. native stone resurfacing on the Westminster Rd. Glastonbury Township, about 6500 lin.ft. 2-in. bituminous macadam on the Hartford Turnpike, Killingworth Township, about 7150 lin.ft. graded on the Higganum Rd. Newtown Township, about 8040 lin.ft. native stone macadam on the Dodingtown Rd. Plainfield Township, about 6875 lin.ft. gravel on the Canterbury Rd. Sprague Township, about 1630 lin.ft. gravel on the Versailles Rd. Vernon Township, about 2675 lin.ft. 6-in. bituminous macadam on Vernon Ave.

Batavia, N. Y.—Bids were received June 17 for paving (a) Dellinger Ave., (b) Tracy Ave. as follows: W. H. Ripton, Rochester, (a) $7286, (b) $9014; H. W. Roberts, Utica, (a) $7449, (b) $9205; Whitmore, Rauber & Vicinus, Rochester, (a) $7778, (b) $9669.

Buffalo, N. Y.—Bids will be received until July 2 by Francis G. Ward, Comr. Pub. Wks., for repaving portions of Washington St.

Cohoes, N. Y.—Press reports state that bids will be received until July 9 by the Board of Estimate and Apportionment for paving Bowery St. at an estimated cost of $22,000.

✚**Geneva, N. Y.**—The contract for resurfacing Exchange St. from the south line of Seneca St. to the north line of North St. with sheet asphalt and brick has been awarded to the WARNER, QUINLAN CO., Syracuse.

✚**Herkimer, N. Y.**—The contract for paving West Smith, William and George St. and Dewey Ave. has been awarded to the WARREN BROS. CO., at $18,301.

New York, N. Y.—(Borough of Bronx)—(Official) — See item under "Sewers."

New York, N. Y.—(Borough of Bronx)—Bids were received June 24 by Douglas Matthewson, Borough Pres., for paving Fordham Rd. from Webster Ave. to Harlem River Terrace as follows: Uvalde Asphalt Paving Co., $90,176; J. Leopold & Co., $88,613; Rogers & McManus, $102,035; Asphalt Construction Co., $85,094; W. J. Scanlon Co., $85,230; Barber Asphalt Co., $99,285; Rafferty Construction Co., $91,035. Noted June 17.

New York, N. Y.—(Borough of Queens)—(Official)—Bids will be received by Maurice E. Connolly, Borough Pres., Borough Hall, Long Island City, until 11 a.m., July 8, for regulating, grading, paving, laying sidewalks, etc., on various streets in the borough; also for furnishing and delivering 62,000 asphalt paving blocks.

Niagara Falls, N. Y.—Bids will be received until July 6 by the Board of Public Works for paving portions of Whitney Ave., at an estimated cost of $32,000.

Belleville, N. J.—Press reports state that the town will soon receive bids for paving and improving Campbell Ave.

✚**Belleville, N. J.**—The contract for paving Greylock Ave. has been awarded to the GLENFIELD CONSTRUCTION CO., Newark. Noted Apr. 29.

Belleville, N. J.—Press reports state that the town plans to pave Howard Pl., Smith, Dow and Heckel St. and Overlook and Belmont Ave.

Hoboken, N. J.—(Official)—Bids were received for repaving portions of Grand, Adams and Madison St. as follows: Henry Waddington, $16,228; E. E. Calder, $18,986; Thomas Cavanaugh, $15,988; F. Fellows Co., $11,922. Noted June 17.

Jersey City, N. J.—William Baker, Inc., 26 Cortlandt St., New York, at $486,688, submitted the lowest bid for improving the Newark Turnpike. Noted June 3.

Jersey City, N. J.—The Van Keuren Contracting Co., at 76.3% standard price, submitted the lowest bid for repaving a portion of Montgomery St. Noted June 3.

✚**Millburn, N. J.**—The contract for paving Prospect and Mountain Ave., Pine, Elm and Maple St. has been awarded to JOHN DORER, Irvington, at $30,000. Noted June 10.

Newark, N. J.—Bids were received June 17 for repaving (a) Richards St. from Ferry St. to the Passaic River, (b) Oraton St. from Delevan to Elwood Ave., (c) Clifton Ave. from Second to Abington Ave. as follows: Continental Public Works Co., New York, N. Y., (a) $6609, (b) $5929, (c) $11,797; Ralph Sangiovanni, Newark, (a) $6973, (b) $6318, (c) $12,649; Northern Construction Co., Newark, (a) $6939, (b) $6229, (c) $12,462; Newton Paving Co., Newark, (a) $6959, (b) $6240, (c) $12,396; McMahon Construction Co., (a) $7039, (b) $6170, (c) $12,395; Uvalde Asphalt Co., (a) $7224, (b) $6485, (c) $12,739; Glenfield Construction Co., (a) $7355, (b) $6428, (c) $12,560. Noted May 20 and June 3.

✚**New Brunswick, N. J.**—The contract for improving St. George's Ave. has been awarded to LIDDLE & PFEIFFER, Perth Amboy, at $65,286. Noted June 10 and 24.

Rutherford, N. J.—(Official)—Bids will be received until 8:15 p.m., July 2, by the Borough Council for laying water bound macadam pavement on Sylvan St. from Pierrepont to Van Riper Ave. and on Van Ness Ave. from Lincoln to Park Ave. F. A. Stedman is Borough Clk.

Summit, N. J.—(Official)—Bids will be received until 8 p.m., July 6, by the Common Council for improving Pine Grove Ave.

Weehawken, N. J.—(Official)—Bids will be received until 8 p.m., July 6, by the Township Committee for paving Clifton Terrace from Hudson Blvd. east to Park Ave. Estimated cost, about $50,000. Noted May 20.

✚★**Philadelphia, Penn.**—(Official)—The contract for improving the Northeast Blvd and branches from Rhawn St. northward has been awarded to the McNICHOL PAVING & CONSTRUCTION CO., at $310,000. Noted June 3 and 24.

Pittsburgh, Penn.—(Official)—Bids will be received until 10 a.m., July 8, by the Commissioners of Allegheny County for improving a number of highways in Allegheny County. Hyatt M. Cribbs is County Controller.

✚**Richmond, Penn.**—The contract for paving North A St. has been awarded to the ANDREWS PAVING CO., Hamilton, Ohio.

✚★**Wilmington, Del.**—A contract for laying approximately 100,000 sq.yd. of pavements has been awarded to the TOPEKA PAVING CO., INC., Brooklyn, at about $500,000. Noted May 13.

Fairmont, W. Va.—At the election held June 21 the citizens of Fairmont District, Marion County voted in favor of issuing $100,000 in bonds, the proceeds of which will be used for improving roads. Noted May 13 and 27.

Huntington, W. Va.—Bids will be received until July 20 by the Commissioners of Cabell County for constructing about six miles of the Ohio River Rd. Oliver & Maupin, Courthouse, is Engr.

Matewan, W. Va.—At a recent election the citizens voted in favor of issuing $12,000 in bonds, the proceeds of which will be used for grading and paving streets.

Carthage, N. C.—At a recent election the citizens voted in favor of issuing $5000 in bonds, the proceeds of which will be used for the construction of roads in Sandhill Township, Moore County. Noted May 7.

Dobson, N. C.—An election will be held July 20 to vote on the question of issuing $25,000 in bonds, the proceeds of which will be used to construct roads in Siloam Township, Surry County.

Carterville, Ga.—(Official)—An election will be held July 17 to vote on the question of issuing $15,000 in bonds, the proceeds of which will be used for paving streets. W. W. Daniel is City Engr.

Ocilla, Ga.—An election will be held July 15 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for the construction of roads.

Pinellas Park, Fla.—Bids will be received until July 6 for curbing and paving a number of streets with brick. R. J. DeHaas is Town Clk.

✚**Tavares, Fla.**—A contract for constructing a system of roads in District No. 4 has been awarded to the CONTINENTAL PUBLIC WORKS CO., at $79,023. Noted Dec. 14 and Mar. 18.

Wauchula, Fla.—Bids will be received until July 12 for paving with brick Main St. from the eastern boundary to Florence Ave. and Fifth Ave. from Orange to Palmetto St.

Laurel, Miss.—The city plans to pave about five miles of streets, including portions of Front, Ash, Eighth and 10th St. Estimated cost, $150,000.

Meridian, Miss.—At a recent election the citizens voted in favor of issuing $50,000 in bonds, the proceeds of which will be used for constructing roads in Lauderdale County to connect with paved streets in Meridian. Noted May 20.

✚Baton Rouge, La.—A contract for paving 12 miles of streets has been awarded to E. W. PRUTMAN, Danville, Ill., at $200,000.

Mansfield, La.—Bids will be received until noon, July 6, by E. D. Hudson, Clk., for constructing approximately 10,130 sq.yd. of street pavement, 3500 lin.ft. of curb and 260 lin.ft. of storm sewer. E. E. Swope is City Engr.

Marksville, La.—The citizens of Avoyelles parish will hold an election July 22 to vote on the question of issuing $350,000 in bonds. The proceeds will be used to construct about 80 miles of roads.

Carrollton, Ky.—An election will be held Aug. 5 to vote on the question of issuing $50,000 in bonds, the proceeds of which will be used for the construction of roads.

Pineville, Ky.—All bids recently received for grading the road from Middlesboro to Four Mile have been rejected by the Commissioners of Bell County. W. C. Bingham is Clk.

Canal Dover, Ohio—Bids will be received until July 15 by C. Weaver, City Clk., for paving East Third St. with brick. The estimated cost of the work is $20,000. George Arnold, New Philadelphia, Ohio, is Engr.

Coshocton, Ohio—(Official)—Bids will be received until noon, July 10, by the City Audr. for the sale of $11,000 in bonds, the proceeds of which will be used for the improvement of Seventh Ave. from Kenilworth Ave. to Bank St.

Euclid, Ohio—(Official)—Bids will be received until noon, July 12, by H. S. Dunlop, Clk., for repairing Euclid Rd. and Chardon Rd. F. A. Pease Engineering Co., 804 Marshall Bldg., Cleveland, is Engr.

✚Findlay, Ohio—The contract for paving East Sandusky St. has been awarded to HASKELL & BATTLES, Painesville, at $9856.

Lakewood, Ohio—(Official)—Bids will be received until noon, July 12, by E. A. Fisher, City Engr., for paving Dowd St. and Norton, French and Virginia Ave. with brick bituminous macadam or sheet asphalt, and for surfacing old macadam on Lake Ave. with bituminous concrete, sheet asphalt or bitulithic.

New Albany, Ohio—Bids will be received until noon, July 15, by F. M. Heischmann, Clk., for improving a number of streets. Jennings, Lawrence & Lindsay, Hartman Bldg., Columbus, is Engr.

✚Norwalk, Ohio—(Official)—A contract for improving four miles of county highway in Huron County has been awarded to the MODERN CONSTRUCTION CO., Fremont, at $37,290. Other bids were: G. E. Scott, $39,999; Graves & Barrett, $39,880; Riley Pardo, $39,499. Noted June 17.

Portsmouth, Ohio—(Official)—Bids will be received until noon, July 6, by George L. Gableman, City Audr., for the sale of $10,000 in bonds, the proceeds of which will be used for improving a number of streets.

✚Rocky River, Ohio—(Official)—The contract for constructing concrete sidewalks on the North Ridge Rd. has been awarded to B. G. FAY, 2087 West 91st St. Cleveland, at $6831. Other bids were: McHugh Bros., $7463; P. H. Peterson, $8025; W. N. Bomfield, $8661; G. B. Sloat, $8513; C. H. Bartholomew, Kent, $8392. Noted June 10.

St. Clairsville, Ohio—(Official)—Bids will be received until 1 p.m., July 5, by Emerson Campbell, Audr. of Belmont County, for repairing and resurfacing a portion of High Ridge Rd., in Pultney, Pease, Colerain and Richland Townships.

West Park, Ohio—Bids will be received until noon, July 6, by Fred F. Feuchter, Clk., for improving Warren, Raymond, Osborne, Belden, Lesure and Midland St.

✚Indianapolis, Ind.—The contract for grading, graveling sidewalks and curbing on Sutherland Ave. has been awarded to the AMERICAN CONSTRUCTION CO., at $7000.

✚New Castle, Ind.—The contract for paving Bundy Ave. has been awarded to the UNION ASPHALT CO., Indianapolis.

✚Bay City, Mich.—Contracts have been awarded for paving Lafayette, Michigan and Kosciusko St. to the WILLISTON CONSTRUCTION CO., at $25,040; Madison and John St. to the CLEVELAND TRINIDAD CO., Cleveland, at $52,039 and $4209 respectively; Germania St. to BATESON BROS., at $12,011; John St. to P. RYAN, at $8417.

Eaton Rapids, Mich.—Bonds for $16,000 have been sold, the proceeds of which will be used for paving a number of streets.

Brocton, Ill.—(Official)—The time for receiving bids has been postponed from June 28 until 2 p.m., July 12, by the Commissioners of Highways of Embarrass Township, Edgar County, for constructing combination rock and gravel roads on four highways in Embarrass Township. Noted June 17.

✚Evanston, Ill.—(Official)—The contract for paving Lyons St. from Ridge to Wesley Ave. has been awarded to M FOLEY CO., at $4814.

Fairbury, Ill.—The City Council contemplates paving Third, Walnut and Maple St. with brick, at an estimated cost of $25,000. H. B. Taylor is Mayor.

✚Lake Forest, Ill.—A contract for constructing 13,400 sq.yd. of asphaltic concrete pavement has been awarded to H. G. GOELITZ, Oak Park, at $29,661. Other bids were: Western Improvement Co., Racine, $30,628; John A. McGarry Co., Chicago, $31,685.

✚Milwaukee, Wis.—Contracts have been awarded for constructing asphalt pavements on 25th, 15th, 18th, and Burnham St. to the WHITE CONSTRUCTION CO., Marietta and Murray Ave., to F. P. COUGHLIN; 27th and 16th St. to the BADGER CONSTRUCTION CO. The estimated cost of the work is $92,000.

Racine, Wis.—(Official)—Bids will be received until 10 a.m., July 10, by the Board of Public Works for the improvement of 17th St. from Hamilton to Phillips Ave. and Lafayette Ave. from West Sixth St. to Root River.

✚Atlantic, Iowa—A contract for paving 24,631 sq.yd. with concrete has been awarded to P. C. HANSEN & SON, Sioux City, at $1.14 per sq.yd.

✚Marshalltown, Iowa—A contract for construction of concrete pavements on 25 streets has been awarded to THOMAS CAREY & SONS, Clinton. Noted June 10.

✚Duluth, Minn.—The contract for paving Sixth and 16th St. has been awarded to AUGUST A. BODIN & SON, at $20,423.

✚Mankato, Minn.—A contract for paving about 1 blocks in the business section has been awarded to the WILD L CO., at $51,786. Noted May 13.

✚Beloit, Kan.—(Official)—A contract for constructing pavements has been awarded to McGUIRE & STANTON CONSTRUCTION CO., Leavenworth, at $83,267. Other bids were: E. W. Geiger Construction Co., $86,442; Kaw Paving Co., $87,073; Watts & Amerman, $82,400. Noted June 17.

✚Wellington, Kan.—(Official)—The contract for paving F, G, H, Fourth and Second St. with asphaltic concrete has been awarded to the KAW PAVING CO., Topeka, at $76,506. Noted June 17.

Kearney, Neb.—(Official)—Bids will be received until 2 p.m., July 2, by T. N. Hartzell, City Clk., for paving Districts Nos. 4 and 5. Noted May 13.

✚Lincoln, Neb.—A contract for constructing asphaltic concrete pavement in District No. 308 has been awarded to the BURKE COCHRANE CONSTRUCTION CO., Lincoln, at approximately $18,000.

✚Lewistown, Mont.—The contract for paving several streets in the Eighth Ave. District has been awarded to C. W. JOHNSON, at $10,320.

✚Kansas City, Mo.—Contracts have been awarded for paving Campbell St. from 27th St. south to the CLEVELAND TRINIDAD PAVING CO., at $4843; Main St. from 40th to 43d St. and Central St. from 31st to 33rd St., to F. P. McCORMICK, at $6107 and $6652 respectively.

✚Newport, Ark.—(Official)—The contract for paving Walnut St. with concrete has been awarded to J. R. HOLDEN, Newport, at $8000. Noted June 17.

Weatherford, Tex.—The citizens of Parker County will hold an election July 31 to vote on the question of issuing $60,000 in bonds. Part of the proceeds will be used for the construction of roads.

Cathlamet, Wash.—Bids will be received until 1 p.m., July 6, by the Board of County Commissioners for improving a portion of State Road No. 19, beginning at Skamokawa, running eastward a distance of 6½ miles.

✚Elma, Wash.—(Official)—The contract for paving Main, Third and Young St. has been awarded to the WASHINGTON PAVING CO., at approximately $34,880. Other bids were: Independent Asphalt Paving Co., $36,482; Olympic Paving Co., $38,784; Hougill-Hegg & Co., $39,126. Noted June 10.

✚Montesano, Wash.—The contract for hardsurfacing a portion of the Elma Rd. has been awarded to the WASHINGTON PAVING CO., Tacoma, at $14,500. Noted June 17.

✚Olympia, Wash.—The contract for constructing 7½ miles of Permanent Highway from Vancouver to La Center in Clark County has been awarded to the GENERAL CONSTRUCTION CO., Spokane, at $25,036. The only other bid was that of Akeson & Baumquist, Portland, at $25,164. Noted June 17.

✚Olympia, Wash.—The contract for paving Main St. has been awarded to the INDEPENDENT ASPHALT PAVING CO., Seattle, at $10,000.

✚Seattle, Wash.—The contract for constructing the Redmond-Issaquah Rd. has been awarded to the HORROCKS CONSTRUCTION CO., at $55,099. Noted June 3.

Astoria, Ore.—Press reports state that the City Council plans to improve Niagara Ave. from Eighth St. to Olney Ave., at an estimated cost of $20,000.

✚Portland, Ore.—The Commissioners of Multnomah County have awarded contracts for highway construction as follows: Columbia River Highway, 26.20 miles, Sections A, B and C, to the WARREN CONSTRUCTION CO., at $288,163; Section D, to the PACIFIC BRIDGE CO., at $155,332; Section E, to the BOYAJOHN-ARNOLD CO. and HANS PEDERSON, at $22,921. Sandy Road, 12.75 miles, Section A and B, to the WARREN CONSTRUCTION CO., at $204,849. Base Line Rd., 8.83 miles, Section A and B, to the CLARK-HENERY CONSTRUCTION CO., Sacramento, at $148,379. Powell Valley Rd., 7.62 miles, to OSCAR HUBER, at $121,603. Foster Rd., 4.34 miles, MONTAGUE-O'REILLY CO., at $94,043. Cañon Rd., 1.67 miles, Section A, to the BOYAJOHN-ARNOLD CO. and HANS PEDERSON, at $16,903; Section B, to MONTAGUE-O'REILLY CO., at $22,352. All bids for paving the St. Helens Rd. were rejected as being too high. Noted Apr. 1 and 29.

Bakersfield, Calif.—Press reports state that the Board of Supervisors of Kern County will receive bids until July 7 for constructing 1.42 miles of the Bakersfield-McKittric Rd.

✚Banning, Calif.—A contract for constructing four miles of concrete curb, gutter and sidewalk has been awarded to M. V. McCOMBS, at approximately $24,000.

✚Gridley, Calif.—The City Trustees have awarded a contract for paving 15 blocks to the CLARK-HENERY CONSTRUCTION CO., Sacramento, at $52,373.

Hutchinson, Kan.—(Official)—Bids will soon be called for by the City Clerk for paving about five blocks with vitrified brick.

✚Los Angeles, Calif.—The contract for improving Medford St. from Murchison to Soto St. has been awarded to BRYANT & AUSTIN, at approximately $13,132.

Riverside, Calif.—Shull-Tucker Co., at $8140, was the lowest bidder for macadamizing and constructing concrete sidewalks, curbs and gutter on Vine St. from First to Seventh St.

Sacramento, Calif.—(Official)—Bids will be received until 2 p.m., July 6, by the State Highway Commission, 515 Forum Bldg., for constructing state highways as follows: Tehama County, from Red Bluff to the northerly boundary, 12.7 miles; Glenn County, From Willows to Grapit, 9.4 miles; Contra Costa County, from El Clevro to Eckley, 3.5 miles; Tulare County, from Goshen to Visalia, 6.4 miles; Tulare County, from westerly boundary to the tracks of the Southern Pacific Company.

✚San Bernardino, Calif.—Contracts have been awarded for paving Second St. to TUTTLE & DEVOY, at $12,236, and I St. to the HIGHWAY CONSTRUCTION CO., at $15,380.

+Sausalito, Calif.—A contract for constructing 4259.15 lin.ft. of bituminous brick highway has been awarded to CLARK & HENERY, at $20,489. Noted June 17.

+Montreal, Que.—A contract for constructing sidewalks on about 33 streets has been awarded to the SICILY ASPHALT CO. at approximately $65,000.

Brockville, Ont.—The Town Council plans to lay tarvia pavement on St. Andrew St. and Court House, at a cost of $5500. G. H. Bryson is Engr.

Ingersoll, Ont.—Bids will be received until 5 p.m., July 5, by W. R. Smith, Town Clk., for constructing approximately 7175 sq.yd. of vitrified brick pavement on a concrete base with 3500 lin.ft. of combined curb and gutter.

Orillia, Ont.—The Town Council plans to pave Front St., at an estimated cost of $7500. C. E. Grant is City Clk.

Pembroke, Ont.—The Town Council is considering the construction of pavements on Hincks, Berlin and Murray St., at an estimated cost of $8000. A. J. Fortier is Clk.

+Wallace, Ont.—A contract for constructing 71 miles of roads has been awarded to A. R. BROWN.

INDUSTRIAL WORKS

+Boston, Mass.—George W. Harvey, 201 Devonshire St., will build a ten-story manufacturing and office building at Chauncey and Bedford St. Clinton J. Warren, 804 Old South Bldg., is Arch.

+Boston, Mass.—J. M. & C. J. BUCKLEY, 164 Federal St., has been awarded the contract for the construction of a five-story, 59x100-ft. warehouse for the Boston Wharf Co., 259 Summer St. M. D. Safford, 259 Summer St., is Arch.

Boston, Mass.—Bids are being received by Stebbins & Watkins, 164 Federal St., Arch., for the construction of a one- and two-story, 65x131-ft. manufacturing building for W. F. Smith.

Boston, Mass.—An eight-story, 55x80-ft. manufacturing and storage building will be constructed for Joseph Segal. F. A. Norcross, 46 Cornhill, is Arch.

+Charlestown, Mass.—Walter S. Glidden has awarded the contract for the construction of a three-story, 47x85-ft. garage to F. C. ALEXANDER, Old South Bldg., Boston, Mass. The estimated cost is $25,000. Warren & Gerrish, 53 State St., Boston, Mass., is Arch. Noted June 24.

+Chelsea, Mass.—W. H. LARKIN, 91 Tudor St., has been awarded the contract for the construction of a two-story addition to the factory of the Revere Rubber Co., 200 Devonshire St., Boston, Mass. The cost is estimated at $40,000.

+Dover, Mass.—The contract for the construction of a two-story, 44x54-ft. garage for W. H. Baltzell, has been awarded to LEIGHTON & MITCHELL, 95 Milk St., Boston, Mass. Bellows & Aldrich, 9 Park St., Boston, Mass., is Arch. The estimated cost is $30,000.

Lowell, Mass.—The Wamesit Power Co. will build a two-story, 60x350-ft. factory, to cost about $60,000. It will be built by day labor.

+Bridgeport, Conn.—JAMES STEWART & CO., 30 Church St., New York, N. Y., has been awarded the contract for the construction of 11 factories for the Remington Arms-Union Metallic Cartridge Co.

+Waterbury, Conn.—The Waterbury Farrell Foundry & Machine Co., 465 Bank St., has awarded the contract for the construction of a three-story, 50x150-ft. addition to its factory to the H. WALES LINES CO., Meriden, Conn. W. E. Griggs, 111 West Main St., is Arch. Noted June 3.

+Waterville, Conn.—TRACY BROS.' CO., 57 Benedict St., has been awarded the contract for the construction of a one- and two-story, 40x100-ft. factory for the Rowbottom Machine Co., Sheffield St. W. E. Griggs, 111 West Main St., Waterbury, Conn., is Arch.

+Binghamton, N. Y.—J. L. LEWIS, Wall St., has been awarded the contract for the construction of a two-story, 62x100-ft. addition to the factory of the Barnes-Smith Co.

+Buffalo, N. Y.—The Pierce-Arrow Motor Car Co. has awarded the contract for the construction of a four-story, 200x400-ft. reinforced-concrete addition to its plant on Elmwood Ave. to the ABERTHAW CONSTRUCTION CO., Boston, Mass. The estimated cost is $200,000.

Buffalo, N. Y.—Bids are being received by Joseph J. Geigard, Arch., 346 Herman St., for the construction of a three-story, 30x150-ft. storehouse for Adam J. Menger, 224 Washington Market.

Herkimer, N. Y.—Bids have been received by Carl Hang & Sons, Arch., Little Falls, N. Y., for the construction of a three-story, 60x90-ft. addition to the mill of the Royal Gem Mills. Joseph Reamy, St. Johnsville, N. Y., is Pres.

New York, N. Y.—(Borough of Brooklyn)—The Sperry Gyroscope Co., 126 Nassau St., plans the construction of a ten-story factory. Frank J. Helmle, 190 Montague St., is Arch.

New York, N. Y.—(Borough of Brooklyn)—Bids have been received by Benjamin Dreisler, Arch., 143 Remsen St., for the construction of a two-story, 60x200-ft. warehouse for Becker's Aniline & Chemical Works, 105 Underhill Ave. Noted Mar. 11.

+New York, N. Y.—(Borough of Manhattan)—SMITH & LEO, INC., 103 Park Ave., Borough of Manhattan, has been awarded the contract for the construction of a $10,000 factory extension for J. M. Huber, 65 West Houston St. (Borough of Manhattan). Brutus Gundlack, 185 Madison Ave. (Borough of Manhattan), is Arch.

+New York, N. Y.—(Borough of Manhattan)—C. F. Etzel, 165 West 18th St., has awarded the contract for the construction of a two-story, 60x100-ft. factory to KATZ & SCHOENHOLTZ, 165 West 18th St. The estimated cost is $12,000. Mitchell Bornstein, 131 East 23rd St., is Arch.

+New York, N. Y.—(Borough of Queens)—J. ODELL WHITENACK, 231 West 18th St., Borough of Manhattan, has been awarded the contract for the construction of a four-story factory for Fred Mayer, Boston, Mass. H. N. Paradise, 231 West 18th St. (Borough of Manhattan), is Arch.

+Syracuse, N .Y.—The Merrill-Soule Co., North Franklin St., has awarded the contract for the construction of a two-story, 56x123-ft. machine shop to the TAYLOR-HORNSBY CONSTRUCTION CO., Post-Standard Bldg. The estimated cost is $14,000.

Butler, N. J.—The Pequannock Rubber Co. will build a three-story, 47x180-ft. and a one-story, 40x75-ft. factory, to cost $50,000. M. & W. Oakley, 6 Park Ave., Paterson, N. J., is Arch. Joseph F. McLean is Pres.

+Newark, N. J.—The contract has been awarded to the ESSEX CONSTRUCTION CO., 85 Academy St., for the construction of a two-story, 80x93-ft. garage for Max Mindl, 31 Clinton St. The estimated cost is $12,000. Frank Grad, 245 Springfield Ave., is Arch.

Newark, N. J.—George Stengel, Western Ave., will rebuild his three-story factory. The estimated cost is $40,000. M. N. Shoemaker, 9 Clinton St., is Arch.

Yardville, N. J.—The Chandler Oil Cloth Co. will build a $30,000 factory. J. Osborne Hunt, Inter-state Telephone Bldg., Trenton, N. J., is Arch.

+Allentown, Penn.—Bayuk Bros. Co. has awarded the contract for the construction of a four-story factory to WILLIAM LINKER & CO.

Croyden, Penn.—(Bridgewater post office)—Bids are being received by Heacock & Hokanson, Arch., 1218 Chestnut St., Philadelphia, Penn., for the construction of a one-story, 40x250-ft. dairy for Joseph R. Grundy, Bristol, Penn. The estimated cost is $35,000.

Fleetwood, Penn.—Wayne M. High, Arch., 11 North Fifth St., Reading, Penn., is receiving bids for the construction of a two-story, 40x489-ft. automobile factory for the Fleetwood Metal Body Works, care Harry Urich. The estimated cost is $40,000.

Lebanon, Penn.—A. S. Kreider, Annville, Penn., contemplates the construction of a three-story factory estimated to cost $30,000.

+Philadelphia, Penn.—The Tasty Baking Co., 2335 Sedgley Ave., has awarded the contract for the construction of a three-story, 66x79-ft. bakery to JOSEPH F. MYERS, JR., 1237 Ridge Ave.

+Philadelphia, Penn.—(Official)—JOHN G. BROWN, Witherspoon Bldg., has been awarded the contract to design and build a plant for the mining, pumping, screening, washing and drying of sand for the Norcross & Edmunds Sand Co.

Riverside, Penn.—Bids have been received by W. U. Jurty, Arch., Shamokin, Penn., for the construction of a three-story, 50x120-ft. mill for William F. Taubel. The estimated cost is $45,000.

Hagerstown, Md.—Plans have been completed by Peuckert & Wunder, Arch., 310 Chestnut St., Philadelphia, Penn., for the construction of a one-story, 100x200-ft. factory for the Pangborn Corporation. The estimated cost is $35,000. Noted May 20.

Winchester, Va.—The National Fruit & Products Co., Alexandria, Va., plans the construction of a $20,000 plant. Milburn, Heister & Co., Union Savings Bank Bldg., Washington, D. C., is Arch.

+Charleston, W. Va.—C. W. McNULTY, Huntington, W. Va., has been awarded the contract for the construction of a six-story, reinforced-concrete factory for the Woodrum Home Outfitting Co., to cost $85,000.

New Orleans, La.—Bids have been received by the Board of Commissioners of the Port of New Orleans, Suite 200, New Orleans Court Bldg., for the construction of a two-story, 120x2000-ft. wharf house and a 150x580-ft. warehouse on the Mississippi River near Valence St. Ford, Bacon & Davis, 921 Canal St., is Arch.

+Akron, Ohio—THE HALLER CONSTRUCTION CO., Second National Bldg., has been awarded the contract for the construction of a one-story, 25x59-ft. and 56x68-ft. garage for Dayton A. Doyle, 510 West Market St. The estimated cost is $14,000. Henry & Murphy, Doyle Blk., is Arch.

Akron, Ohio—The Akron Gas Lamp Co. will build a factory at 606 South High St., to cost $14,000.

Barberton, Ohio—The Portage Rubber Co. will build a factory at an estimated cost of $300,000.

+Cincinnati, Ohio—THE FERRO CONCRETE CONSTRUCTION CO., Richmond and Harriet St., has been awarded the contract for the construction of a one- and two-story, 52x203-ft. garage for the Commercial Auto & Sales Co., care Joseph Bering, 128 East Eighth St. The estimated cost is $30,000. Anthony Kunz, Jr., 955 West Court St., is Arch.

Cleveland, Ohio—Plans have been completed by Samuel Austin & Son Co., 14,230 Euclid Ave., for the construction of a four-story, 60x320-ft. factory, a foundry, and a power plant, at Ivanhoe Rd. and the Nickle Plate R.R., for the Frantz-Premier Co., Leader-News Bldg.

+Cleveland, Ohio—JOHN WOIDE, 1659 East 86th St., has been awarded the contract for the construction of a one-story, 70x180-ft. addition to the factory of the Allyne Ryan Foundry Co., Aetna Rd. The Forest City Engineering Co., 512 Hippodrome Bldg., is Engr.

Cleveland, Ohio—The Westinghouse Electric & Mfg. Co., 1220 West 58th St., will remodel its plant at a cost of $500,000.

Cleveland, Ohio—Bids are being received by the Hydraulic Pressed Steel Co., H. O. Davidson, Ch. Engr., 3152 East 61st St., for the construction of a one-story, 80x360-ft. factory.

+Columbus, Ohio—D. Reibel & Sons, Arch., has awarded the contract for the construction of a dairy and ice plant for the S. T. Budd Dairy Co., to WILLIAM WATSON, at $52,856. Noted Apr. 22 and June 24.

+Dayton, Ohio—The contract for the construction of a four-story, 65x70-ft. packing plant for the Henry Burkhardt Packing Co., Huffman and Irwin St., has been awarded to JOSEPH BOREN & SONS, Arcade Bldg., Peters, Herman & Brown, Reibold Bldg., is Arch.

Kokomo, Ind.—Howard Cole & Co. plans the construction of additions to its foundry to cost $75,000.

+Muncie, Ind.—The Warner Gear Co. has awarded the contract for the construction of a two-story addition to its

factory to the ILLINGSWORTH-SPANGLER CO. The estimated cost is $15,000. Cuno Kibele, 335 Johnson Bldg., is Arch.

✚**Detroit, Mich.**—The Atlas Foundry Co. has awarded the contract for the construction of a 85x270-ft. factory at Artillery Ave. and the Wabash R.R. to the WISCONSIN BRIDGE CO. W. T. Curtis is Engr.

✚**Saginaw, Mich.**—The Saginaw Daily News, 307 Tuscola St., has awarded the contract for the construction of a three-story, 50x110-ft. press building to J. S. KERNS & SON, 207 South Third St. The estimated cost is $30,000. Cowles & Mutscheller, 1 Chase Blk., is Arch.

Chicago, Ill.—The Bermingham & Seaman Co., 7 South Dearborn St., will build a seven-story, 100x150-ft. paper mill, to cost $150,000. Paul Gerhardt, 64 West Randolph St., is Arch.

✚**Chicago, Ill.**—The contract for the construction of an eight-story warehouse for the Independent Packing Co., 41st and Halsted St., has been awarded to the E. W. SPROUL CO., 1120 West 35th St. S. S. Joy, 1118 West 35th St., is Arch. Noted Jan. 14.

✚**Wausau, Wis.**—FRED W. KRAUSE has been awarded the contract for the construction of a three-story, 106x120-ft. packing plant for the Farmers' Coöperative Packing Co. H. C. Gardner, 140 South Dearborn St., Chicago, Ill., is Arch. Noted Feb. 4.

✚**Jennings, Mo.**—The National Oil Cloth Co. has awarded the contract for the construction of a one-story, 163x347-ft. factory to the McCORMICK-COOMBS CONSTRUCTION CO., Columbia Bldg., St. Louis. Klipstein & Rathmann, Chemical Bldg., St. Louis, is Arch.

Kansas City, Mo.—The Southwest News Co. will build a four-story, 50x133-ft. reinforced-concrete building at 410 East Ninth St., to cost $75,000. Smith, Rea & Lovitt, 602 Finance Bldg., is Arch.

St. Louis, Mo.—O. R. S. Traber, Fullerton Bldg., Arch., is receiving bids for the construction of a four-story, 48x96-ft. factory for Vivianno Bros., 1022 North Seventh St.

Tacoma, Wash.—The Sperry Flour Co. will build an addition to its plant at a cost of $65,000. J. D. Armstrong is Local Mgr. Bullard & Hill, Provident Bldg., is Arch.

San Fernando, Calif.—(Official)—Bids have been received by M. Grassley, Consolidated Realty Bldg., for the construction of a $20,000 lemon-packing plant for the San Fernando Lemon Association. H. A. Hamm, 100 North Daisy Ave., La Manda, Calif., is Arch.

FEDERAL GOVERNMENT WORK

Post Office—Mt. Vernon, N. Y.—Bids were received June 25 for the construction of a post office at Mt. Vernon, (a) using limestone for all stonework, except where granite is specified, (b) using sandstone, except where granite is specified, (c) using marble, except where granite is specified, as follows: J. S. Rogers, Moorestown, N. J., (a) $98,999, (b) $102,700, (c) $116,300; Westchester Engineering Co., White Plains, (a) $96,500, (b) $106,000, (c) $113,900; Dawson & Archer, New York, (a) $99,245, (b) $103,670, (c) $112,075; John G. Unkefer & Co., Minerva, Ohio, (a) $98,600, (b) $106,274, (c) $116,600; George T. Kelley, Yonkers, (a) $96,588, (b) $104,508, (c) $112,608; William J. Morgan, Mt. Vernon, (a) $99,450, (b) $99,000, (c) $112,800; John Lowry, Jr., New York, (a) $106,265, (b) $110,775, (c) $123,865; Thomas J. Waters, New York, (a) $110,000, (b) $115,000, (c) $125,000; William H. Egan, New York, (a) $99,740, (b) $106,300, (c) $127,700; Joseph di Benedetto, New York, (a) $87,737, (b) $95,737, (c) $105,737; Aroldo Barbaresi, New York, (a) $106,500, (b) $107,000, (c) $119,900; John T. Brady & Co., New York, (a) $94,510, (b) $97,510, (c) $110,510. Noted May 27.

✚**Plumbing**—New York, N. Y.—The contract has been awarded to C. F. MENTZINGER SONS, Brooklyn, at $32,119, for installing a new plumbing system in the U. S. post office and court house. Noted May 13 and June 10.

✚**Coast Guard Station**—Oswego, N. Y.—The contract has been awarded to R. M. BARNETT, Oswego, at $10,750, for constructing a coast guard station. Noted June 3 and 24.

★**Repair to Pier**—Erie, Penn.—The T. A. Gillespie Co., Pittsburgh, was low bidder at $30,248, for making repairs to north pier, Erie. Noted May 27.

Immigration Station—Baltimore, Md.—Bids will be received until 3 p.m., Aug. 16, by James A. Wetmore, Act. Superv. Arch., Washington, D. C., for constructing one four-story, one three-story and two two-story buildings.

★**Road Work**—Washington, D. C.—Bids were received June 22 by the Department of Agriculture for the construction of an experimental road on the Russel Rd., Alexandria County, Virginia, as follows: William P. McDonald Construction Co., New York, N. Y., $18,362; L. M. Johnson, Arlington, Va., $20,925; G. B. Mullen Construction Co., Washington, D. C., $18,574. Noted June 10.

Fuel-Oil Tank—Key West, Fla.—Bids will be received until 11 a.m., July 17, by H. R. Stanford, Ch. of Bureau, Yards and Docks, Navy Dept., Washington, D. C., for constructing a 50,000-gal. steel fuel-oil storage tank at the naval station.

Levee Work—Vicksburg, Miss.—Bids will be received until 11 a.m., July 12, by the officer of the Third Mississippi River District, for levee work consisting of 1,415,000 cu.yd.

✚**Post Office**—New Albany, Ind.—The contract for the construction of a post office at New Albany has been awarded to R. P. FARNSWORTH & CO., Owensboro, Ky., at $67,675. Noted Apr. 8 and May 20.

✚**Post Office**—La Salle, Ill.—The contract has been awarded to CHARLES W. GINDELE, Chicago, at $67,000, for constructing the U. S. post office. Noted Apr. 22 and June 3.

Post Office—Ft. Atkinson, Wis.—Bids will be received until 3 p.m., Aug. 2, by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for constructing complete the U S. post office at Ft. Atkinson.

✚**Post Office**—Chillicothe, Mo.—The contract for the construction of a post office at Chillicothe has been awarded to W. H. FISSELL & CO., New York, N. Y., at $87,700. Noted Apr. 22 and June 10.

Post Office—Cuero, Tex.—Bids were received June 1 by the Acting Supervising Architect, Treasury Dept., Washington, D. C., for the construction of a post office at Cuero, (a) limestone, (b) sandstone, as follows: Texas Construction Co., San Antonio, (a) $52,500, (b) $55,300; Richardson Engineering & Construction Co., Bainbridge, Ga., (a) $53,470, (b) $59,470; George A. Shaul, Seneca, Kan., (a) $53,510; R. P. Farnsworth & Co., Owensboro, Ky., (a) $56,470, (b) $59,000; Aldridge Blair, Montgomery, Ala., (a) $57,286; Charles Fuess & Son, Cuero, (a) $57,800, (b) $61,200; Potters Lumber Co., East Liverpool, Ohio, (a) $58,200, (b) $60,800; Thomas W. Bissell, Wooster, Ohio, (a) $58,500, (b) $61,000; J. F. McKnight, Hallettsville, (a) $63,500. Noted May 13.

✚**Post Office**—Long View, Tex.—The contract for the construction of a post office at Long View has been awarded to V. E. TAYLOR, Ennis, at $36,250. Noted Apr. 29 and June 10.

Reclamation Service—Provo, Utah—Bids will be received until 2 p.m., July 15, at the U. S. Engineer Office, Provo, for constructing about 50,000 cu.yd. of canal excavation, 8000 cu.yd. of rolled embankment, 3000 cu.yd. of excavation for structures, 950 cu.yd. of reinforced concrete and 525,000 sq.ft. of canal lining. Morris Bien is Act. Dir. Specifications are on file with "Engineering News."

Repairing Wharfs—Portland, Ore.—Bids will be received until 11 a.m., July 12, at the U. S. Engineer Office, Couch Bldg., Portland, for enlarging and repairing wharfs and tramways and extending the north and south jetties at the mouth of the Sinslaw River.

Barges—Portland, Ore.—Bids will be received until 11 a.m., July 15, at the U. S. Engineer Office, Second District, Portland, for constructing two wooden fuel barges.

Addition to Building—Salem, Ore.—Bids will be received until 2 p.m., July 21, by Cato Sells, Comr. of Indian Affairs, Washington, D. C., for constructing an addition to the brick assembly hall at the Salem School.

Buildings—Guantanamo, Cuba—Bids will be received until 11 a.m., July 31, by H. B. Stanford, Ch., Bureau Yards and Docks, Washington, D. C., for constructing six buildings at the naval station, Guantanamo. Noted Apr. 8.

Locomotives—Panama—Bids will be received until 10:30 a.m., Aug. 16, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing 12 electric towing locomotives for the canal locks. Noted June 17.

Miscellaneous Supplies—Panama—Bids will be received until 10:30 a.m., July 9, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing miscellaneous supplies

Steel Doors—Panama—Bids will be received until 10:30 am., July 13, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing steel doors and erecting them at Pier No. 7 at Cristobal and shed on Pier 18 at Balboa

Structural Steel—Panama—Bids will be received until 10:30 a.m., July 12, by Maj. F. C. Boggs, Gen. Pur. Agt., Panama Canal, Washington, D. C., for furnishing and erecting structural steel and accessory parts for shed on pier No. 7, Atlantic Terminal, Panama Canal.

MISCELLANEOUS

Fire Station—Springfield, Mass.—Bids will be received by the City Clerk until noon, July 12, for the construction of a fire station on Winchester Sq. Specifications may be obtained from B. Hammett Seaburg, Arch., 21 Besse Place, Springfield.

✚**Dam**—Felts Mills, N. Y.—(Official)—The general contract for constructing a gravity section concrete dam at Felts Mills, has been awarded to the STEWART ENGINEERING CORPORATION 17 Battery Pl., New York. This dam impounds the waters of the Black River, generating power to operate the pulp and paper mill of the Taggart Paper Co.

Subway—New York, N. Y.—(Borough of Bronx)—The United States Government has consented to the construction of the proposed rapid transit bridge over the Bronx River at Westchester Ave. This bridge is to carry the tracks of the Pelham Bay Park branch of the Lexington Ave. subway, which, at this point runs on an elevated structure. The plans call for a permanent bridge with a clearance of 61 ft. above mean high water. The Engineers of the Public Service Commission for the First District are preparing plans.

Lumber, Grits and Sand—New York, N. Y.—(Borough of Bronx)—(Official)—Bids will be received by Douglas Mathewson, Borough Pres., Municipal Bldg., 177th St. and Third Ave., for furnishing and delivering long leaf yellow pine, spruce and chestnut posts and grits and wash sand.

Dredging—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by R. A. C. Smith, Comr., Docks and Ferries, Pier A, Battery Pl., Borough of Manhattan, until noon July 12, for dredging in Mill Basin, Jamaica Bay.

Subway—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by the Public Service Commission, 154 Nassau St., until 12:15 p.m., July 20, for the construction of Section No. 1 of Route No. 49, a part of the Culver Rapid Transit R.R. This is a three-track elevated railroad, which will connect the Fourth Ave. subway through 38th St. and Gravensend Ave., with Coney Island. Section No. 1 extends from a point in 37th St., 246 ft. southeast of Tenth Ave. under private property and intersecting streets to Gravesend Ave. and over Gravesend Ave. to a point about 525 ft. south of Bay Parkway (22nd Ave.) produced.

✚**Subway**—New York, N. Y.—(Borough of Brooklyn)—(Official)—The contract for constructing a part of Route 29, Section 1, beginning at a point under Eastern Parkway, about 192 ft. west of the westerly building line of Nostrand Ave., curving thence southerly under Eastern Parkway and private property into Nostrand Ave. to a point about 220 ft. south of the southerly building line of Church Ave. has been awarded to NEWMAN & CAREY, 215 Montague St. (Borough of Brooklyn), at $2,073,303. Noted June 24.

Lumber and Piles—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by R. W. C. Smith, Comr., Docks and Ferries, Pier A, Battery Pl., until noon, July 12, for furnishing and delivering lumber and piles.

Dredging—New York, N. Y.—(Borough of Manhattan)—(Official)—The following are the bids received by R. A. C. Smith, Comr. Docks and Ferries, for dredging for the Riverside Park improvement, West 87th to West 93rd St., North River: H. DuBois, 17 State St., 13c. per cu.yd.; J. A. Seely, 18c.; Morris & Cummings, 21c. Noted June 17.

✚Track Materials—New York, N. Y.—(Borough of Manhattan)—(Official)—The following awards have been made by the Public Service Commission, 154 Nassau St., Borough of Manhattan, for furnishing track materials: For open hearth rails, including main rails and guard rails, BETHLEHEM STEEL PRODUCTS CO., at $78,949; for rolled manganese rails, including standard and short lengths also the drilling or punching of bond and separate holes, MANGANESE STEEL RAIL CO., at 16,337; for track rail spliced bars, RAIL JOINT CO., at $11,474; for anti creepers, including those for guarded rails and those for unguarded rails, the CREEPCHECK CO., at $2571; for cut track spikes, LACKAWANNA STEEL CO., at $3326; for furnishing ties and timber, J. H. BURTON & CO., at $134,804; for furnishing bolts and nuts, AMERICAN IRON & STEEL MFG. CO., at $20,675; for malleable iron castings, under which classification are included guard rail braces, main rail braces and washers, FORAN FOUNDRY & MFG. CO., $5251; for tie plates under Type A, LACKAWANNA STEEL CO., at $14,190; for tie plates under Classification D, RAMAPO IRON WORKS, $1600, also for tie plates under Classification W and X, at $164; for hand rails, VULCAN RAIL & CONSTRUCTION CO., at $15,606; for special work, the RAMAPO IRON WORKS, at $19,740. Noted May 27 and June 24.

Motor Fire Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Robert Adamson, Fire Comr., until 10:30 a.m., July 7, for furnishing and delivering 24 motor-driven hose wagons, under three separate contracts, each contract providing for eight. Bids will also be opened at that time for furnishing 12 forty-gal. chemical tanks and 12 chemical hose reels.

Special Motor Apparatus—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Municipal Bldg., until 2 p.m., July 9, for furnishing and delivering one four-ton auto truck body, crane, bucket, etc., for cleaning catch basins; one four-ton auto chassis with power take off; one superstructure, including body, crane, bucket, shafts, gears, etc., from plans "A"; one superstructure according to plan "B." Plans are on file with the Auditor, Room 2141 Municipal Bldg.

Supplies—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received at Room 1230, Municipal Bldg., until noon, July 7, for furnishing and delivering lime, cement, sand, rock, fire clay and fire brick to the Department of Bridges, Docks and Ferries, Public Charities, Water Supply, Gas and Electricity and Fire Department.

Lumber—New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received at Room 1230, Municipal Bldg., until noon, July 7, for furnishing and delivering lumber to Bellevue and Allied Hospitals, Department of Bridges, Fire Department, Department of Public Charities and Department or Water Supply, Gas and Electricity.

Screen Work—New York, N. Y.—(Borough of Richmond)—(Official)—The following are the bids received by the Department of Charities for furnishing and installing certain screen work on the windows and balconies of various buildings of the Sea View Hospitals. Protector Ventilating Co., $12,967; W. H. Jameanau Co., $14,375; Watson Mfg. Co., $18,759; Theriault Mfg. Co., 946 Flatbush Ave., Brooklyn, $12,939; S. Rorbuck Co., 13,941. Noted May 13 and 27, and June 17.

Flood Protection—Olean, N. Y.—The taxpayers of the city have voted to issue $150,000 in bonds for flood abatement. Noted June 10.

Park Improvements—Caldwell, N. J.—The Essex County Park Commission plans to spend $50,000 in improving Grover Cleveland Park.

Stable—Jersey City, N. J.—The city plans to construct a three-story stable on Cornelison Ave. at an estimated cost of $50,000.

Park Bonds—Jersey City, N. J.—Bids will be received until 3 p.m., July 8, by the Board of Chosen Freeholders of Hudson County for $300,000 of Hudson County park bonds. Walter O'Mara is Clk.

Fire Alarm System—New Kensington, Penn.—Bids will be received by W. G. Goerman, Chn. Fire Com., until 8 p.m., July 6, for furnishing and installing a fire alarm system.

Terminal—Spartanburg, S. C.—According to press reports the Southern Ry. Co. will build a freight terminal consisting of separate inbound and out bound warehouses with ample team track facilities, to cost about $100,000.

✚Sheds—Jacksonville, Fla.—The contract for constructing structural steel sheds, also roofing and siding on the municipal piers, has been awarded to the CHESAPEAKE IRON WORKS, Baltimore, at $33,160 and $24,738 respectively. F. W. Bruce is Ch. Engr., Port Comn. Noted June 3.

Drainage—St. Augustine, Fla.—Press reports state that the County Commissioners have sold bonds for improving the Elkton drainage system.

Wharf—New Decatur, Ala.—It is reported that the City Council has purchased a site at Bank St. along the Tennessee River and plans the construction of a wharf.

Wharf—Tuscaloosa, Ala.—The City Commission is considering the construction of a wharf at a cost of $25,000.

Levee—Senatobia, Miss.—Bids will be received by J. A. Wooten, Clk., County Supervisors, until July 5 for the construction of a levee.

✚Levee Work—New Orleans, La.—The State Board of Commissioners has awarded the following contracts to D. B. HEARIN & SON.; Scott Levee, 210,000 cu.yd. at 11.22c. per cu.yd.; Magnolia Levee, 157,000 cu.yd. at 9.4c.; the Whitney Levee, 110,700 cu.yd. at 9.4c.; Jack Strange Levee, 84,000 cu.yd. at 8.98c.

★✚Cranes and Elevator—New Orleans, La.—The contract for furnishing the electrical cranes for the cotton warehouses, has been awarded to the PAWLING & HARNISCHFEGER CO., Milwaukee, Wis., at about $65,800. Ford, Bacon & Davis, New Orleans, is Engr. Noted May 27.

Lumber and Piling—New Orleans, La.—Bids will be received by Ernest M. Loeb, Pres. Bd. of Comrs., New Orleans, until 2 p.m., July 14, for furnishing creosoted piling, creosoted lumber, and creosoted sheet piling, required for the construction of Julia Street Wharf. Specifications may be obtained of J. Devereux O'Reilly, Engr., 200 New Orleans Court Bldg., New Orleans.

Drainage—Westlake, La.—Bids will be received by W. H. Managan, Pres., Sulphur Drainage District No. 2, until July 7, for constructing 15 miles of open ditches. F. Shutts & Son, Lake Charles, is Engr.

Docks—Memphis, Tenn.—The Memphis Terminal Corporation is considering the construction of docks along the river front.

Drainage—Selmer, Tenn.—Bids will be received by the Board of Directors, Big Snake Creek Drainage District, until July 9, for drainage work, requiring about 253,844 cu.yd. of earth excavation. J. C. Houston, Selmer, is Atty.

Motor Fire Apparatus—Bellaire, Ohio—The voters passed a $16,500 bond issue for the purchase of one triple combination fire automobile, one combination motor fire truck, and one motor tractor.

Motor Fire Apparatus—Cleveland, Ohio—The city plans to spend $450,000 for motorizing and improving the fire department. Alfred A. Benesch, 304 City Hall, is the Safety Dir.

Swimming Pool—Cleveland, Ohio—Plans have been prepared by Walker & Weeks, Archs., 1900 Euclid Ave., for the construction of a swimming pool for the Y. W. C. A., at Prospect Ave. and East 18th St. The estimated cost is $15,000.

Ditch—Shelby, Ohio—Bids will be received until July 6 by George P. Staley, County Audr., for the purchase of $24,200 in ditch bonds.

✚Coke Ovens—Toledo, Ohio—The contract for constructing coke ovens for the Toledo Furnace Co. has been awarded to the H. KOPPERS CO., Pittsburgh, Penn.

✚Ditch—Anderson, Ind.—The contract for constructing Peters Ditch, etc., has been awarded to DANIELS & TYST, Anderson, at $30,125. William F. McVaugh is Drainage Comr. Noted May 13.

Ditch—Belvidere, Ill.—The Commissioners of Coon Creek Drainage District have completed plans for improving Coon Creek at a cost of about $78,000. A. L. Webster, Wheaton, is Engr.

Waterway—Springfield, Ill.—Edward F. Dunne, Governor, has signed the bill which provides for the construction of an eight-ft. channel connecting the Chicago drainage canal with the Illinois River, thereby creating a direct water route between the great lakes and the Gulf of Mexico through the Mississippi River. Noted Mar. 4.

Dam—Duluth, Minn.—Bids will be received by the County Commissioners until July 6 for constructing a dam at Vermillion Falls.

✚Ditches—Fairmont, Minn.—The contracts have been awarded by the County Commissioners for constructing Ditch No. 46 to the CEYLON CEMENT TILE CO., Ceylon, at $10,990, and Ditch No. 27, to JOEL BRAHY, Sherburn, at $6595. H. C. Nolte is County Audr.

Ditches—Roseau, Minn.—Bids will be called sometime in August by the State Drainage Commission, for constructing Judicial Ditches Nos. 61 and 62. The work requires the digging of about 300 miles of ditches in Roseau County, which includes 4,000,000 yd. of excavation. The estimated cost is $490,000. George A. Ralph, St. Paul, Minn., is Engr.

Conduit—Kansas City, Mo.—The City Council has granted permission to the Western Union Telegraph Co. to lay under the surface of the downtown streets, a pneumatic tube service and ducts for carrying low tensions wires.

Wharves and Docks—Beaumont, Tex.—The Wharf and Dock Commission has instructed Hugh M. Harding, Engr., 52 Vanderbilt Ave., New York, N. Y., to prepare working plans for the first wharf and terminal improvements, which includes the raising of the present wharf and the building of another unit of 500 ft., the construction of an 800-ft. shed and the installation of several loading and unloading cranes and other machinery. The estimated cost is $109,000. Noted Apr. 22.

Drainage—Robstown, Tex.—At an election held on June 17 a drainage district, comprising the town of Robstown and the outlying lands, was created and $150,000 bonds voted for the purpose of constructing a drainage system.

Drainage—Texas City, Tex.—The City Commission will soon call an election to vote on the question of issuing about $200,000 bonds for the construction of an underground drainage system. John W. Maxcy, Houston, is Engr.

Drainage—Dexter, N. M.—The construction of a drainage system near here to embrace 20,000 acres of land will be started about Aug. 1, if war is not declared by the United States against Germany. This provision is contained in the option of the Dickey Tile Co. for the purchase of the $250,000 bond issue for the proposed work.

Fire Equipment—Phœnix, Ariz.—Bids will be received by Robert A. Craig, City Mgr., until 4 p.m., July 6, for installing a fire alarm system and furnishing a motor driven fire engine.

✚Ditches, Drainage—Everett, Wash.—The contract for constructing drainage ditches in Drainage District No. 4, between Snohomish and Monroe, has been awarded by the County Commissioners to GEORGE P. WRIGHT, Tacoma, at $33,829. H. P. Niles is Engr. of the Dist.

Dock and Warehouse—Seattle, Wash.—The Harbor Island Dock & Terminal Co., White Bldg., will erect a dock and warehouse on Harbor Island, to cost about $500,000. Among those interested are O. D. Fisher, Fisher Flouring Mills Co., and the Schwager-Nettleton Mill Co., both with offices in the White Bldg.

Sprinkler System—Seattle, Wash.—The following are the bids received by C. E. Remsberg, Secy., Port of Seattle for installing a fire protection system in the storage warehouse at Smith's Cove: Fire Protection & Equipment Co., Seattle, $12,180; Automatic Sprinkler Co., Seattle, $13,140; Pacific Fire Extinguisher Co., Seattle, $13,452; Rockwood Sprinkler Co., Seattle, $13,371. Noted June 10.

Dock and Warehouse—Portland, Ore.—Plans are being prepared by Emil Schacht & Son, Arch., Portland, for the construction of a dock and warehouse on the Willamette River, for Albert Bros., Portland. The estimated cost is $20,000.

✚Oil Reservoir—Los Angeles, Calif.—The contract for constructing a concrete oil reservoir at Point Fermin for the General Petroleum Co. has been awarded to LEONARDT & PECK, Hellman Bldg. Los Angeles, at about $60,000.

Levees—Sacramento, Calif.—The West Side Co., will spend $150,000 in the reconstruction of levees from Knights Landing to Colusa. J. H. Ralston and E. L. Low are Dirs.

✚Ferry Aprons—San Francisco, Calif.—The Board of State Harbor Commissioners has awarded a contract for the construction of side aprons for ferry slips 6, 7 and 8, to the HEALY-TIBBITTS CONSTRUCTION CO., at $13,000.

✚Piles—San Francisco, Calif.—The contract for furnishing the State Harbor Commission with creosoted piles has been awarded to J. M. COLEMAN, at $15,605. Noted June 24.

Bath House, Etc.—Santa Monica, Calif.—Charles F. Gordon, Arch., Los Angeles Investment Bldg., Los Angeles, has been commissioned to prepare plans for a two-story bath-house for W. J. Stadleman. There will also be a bridge about 60 ft. long to connect the roof with the bluff adjoining. The estimated cost is $25,000.

Flume—Weaverville, Calif.—The Corona de Ore Mining Co. will construct a flume 2½ miles long at a cost of about $25,000.

Levee—Yuba City, Calif.—The county plans to spend $50,000 on levee construction.

Dam—Beaverton, Ont.—G. Veale & Co. plans to construct a dam.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous"

✚Augusta, Maine—The contract for the construction of a one-story, 54x127-ft. building for St. Augustine Church, has been awarded to JOHN FRANK CYR, Waterville, Maine. T. G. O'Connell, 18 Boylston St., Boston, Mass., is Arch. The estimated cost is $50,000. Noted May 13.

✚Burlington, Vt.—The Rutland R.R. and the Central Vermont R.R. have awarded the contract for the construction of a two-story union station to the W. SHETON SWALLOW CO., 105 West 40th St., New York, N. Y.

Boston, Mass.—The First Universalist Church will build a one-story Church to cost $50,000. Rev. H. D. Maxwell, 10 Grand View Ave., is pastor.

✚Boston, Mass.—The contract for the construction of a business block at 725 Atlantic Ave. for Daniel P. Collins has been awarded to NATHAN HURWITZ, 23 Wolcott St. The estimated cost is $50,000. A. J. Carpenter, Jr., 39 Dunreath St., is Arch.

✚Lawrence, Mass.—John Flanagan, Supt. of Pub. Bldgs., City Hall Annex, has awarded the contract for the construction of a four-story, 86x217-ft. school to A. D. SHUFELT, 54 Phillips St.

Malden, Mass.—Newhall & Blevins, Arch., has plans prepared for the construction of a $40,000 addition to the public library on Park St.

✚Milton, Mass.—BIGELOW & HARRIMAN, 127 Federal St., Boston, Mass., has been awarded the contract for the construction of a two-story building at Milton Academy. George F. Sgepard, 14 Kilby St., Boston, Mass., is Arch.

Waltham, Mass.—St. Charles Congregation will build a one-story, 65x150-ft. church, at an estimated cost of $85,000. Rev. Peter J. Walsh is pastor. James F. Monaghan, Room 401, 79 Milk St., Boston, Mass., is Arch.

Waltham, Mass.—John J. Johnson, 16 Morse St., Boston, Mass., will build a two-story, 65x125-ft. theater and store building by day work. The estimated cost is $45,000. F. A. Norcross, 46 Cornhill, Boston, Mass., is Arch.

Worcester, Mass.—A four-story lodge will be constructed for the Worcester Aerie of Eagles, to cost about $75,000. Thomas Wiseman is Chn. of Bldg. Com. F. M. Conlson, Walker Bldg., is Arch.

Albany, N. Y.—Merrick & Pember, Arch., 51 State St., is preparing plans for the construction of an eight- or ten-story apartment house at Washington Ave. and Swan St. The estimated cost is $150,000.

Albany, N. Y.—Plans are being prepared by Marcus T. Reynolds, Arch., 100 State St., for the construction of a six-story office building at 124 State St. for the Municipal Gas Co., 112 State St. The estimated cost is $600,000. N. F. Brady is Pres.

✚Buffalo, N. Y.—W. J. WIERZBOWSKI, 1427 Broadway, Buffalo, has been awarded the contract for the construction of a three-story parochial school on Sycamore and Mills St. for the Church of the Transfiguration. Estimated cost, $60,000. W. H. Zawadski is Arch.

✚Buffalo, N. Y.—The general contract for the construction of a two-story, 100x100-ft. reinforced-concrete store building at 300 Delaware Ave., for Harlow C. Curtiss, Erie County Bank Bldg., has been awarded to the EASTERN CONCRETE STEEL CO., Morgan Bldg. Estimated cost, $70,000.

✚Katonah, N. Y.—The contract for the construction of a two-story sanatorium for W. Fahnestock, 2 Wall St., New York, has been awarded to STEVENSON & CAMERON, INC., 37 West 25th St., New York. The estimated cost is $45,000.

✚New Hartford, N. Y.—PIUS KERNER & SONS, Utica, has been awarded the contract for the construction of a four-story building for St. Elizabeth's Hospital, Genesee St. The estimated cost is $200,000. Noted Dec. 10.

New York, N. Y.—(Borough of Bronx)—The New York Central R.R. contemplates the construction of a station at Park Ave. and Spencer Pl. from 146th to 149th St. The estimated cost is $3,000,000. G. W. Kittredge is Ch. Engr.

New York, N. Y.—(Borough of Bronx)—Plans are being prepared by M. L. Emery and H. G. Emery, 68 Bible House, for the construction of an asylum at Kingsbridge Rd., Grand Blvd., Creston Ave. and 193rd St. for the Society for Relief of Destitute Blind, 896 Amsterdam Ave.

New York, N. Y.—(Borough of Brooklyn)—Lord & Hewlett, Arch., 345 Fifth Ave., New York, is preparing plans for the construction of additions and alterations to the Brooklyn Hospital, at De Kalk Ave. and Raymond St.

New York, N. Y.—(Borough of Manhattan)—Schwartz & Gross, Arch., 347 Fifth Ave., is preparing preliminary plans for the construction of a 13-story apartment house at Park Ave. and 81st St. for Edgar A. Levy, 505 Fifth Ave. The estimated cost is $500,000. Noted May 6.

New York, N. Y.—(Borough of Manhattan)—(Official)—Bids will be received by C. B. J. Snyder, Supt., Dept. of Education, Park Ave. and 59th St., until 3 p.m., July 22, for the general construction of Public School No. 3 at Grove and Hudson St.

New York, N. Y.—(Borough of Manhattan)—Bernhard Feifer, 109 East 81st St., has purchased a site at 111 East 81st St. upon which he will construct a nine-story apartment house.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Warren & Wetmore, Arch., 16 East 47th St., for the construction of an apartment house on Park Ave. from 55th to 56th St. The estimated cost is $1,600,000. Fullerton-Weaver Realty Co., 30 East 42nd St., is interested.

New York, N. Y.—(Borough of Manhattan)—The George Backer Realty Co. recently purchased a site at Madison Ave. and 29th St. upon which they will construct a commercial building. The estimated cost is $900,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Emory Roth, Arch., 405 Lexington Ave., for the construction of an apartment house at 568 Park Ave. for Bing & Bing, 119 West 40th St. The estimated cost is $400,000.

New York, N. Y.—(Borough of Manhattan)—Plans have been prepared by William H. Birkmire, Arch., 1133 Broadway, for the construction of a sixteen-story store and loft building at 53 West 23rd St. upon the site of the Eden Musee. The estimated cost is $400,000.

New York, N. Y.—(Borough of Manhattan)—Plans are being prepared by Cross & Cross, Arch., 10 East 47th St., for the construction of a six-story store and apartment building at 414 Madison Ave., near 48th St., for David Dows. The estimated cost is $100,000.

✚New York, N. Y.—(Borough of Queens)—The contract for the construction of a one-story bank building on the Queensboro Bridge Plaza, between Jackson and Hunter Ave. for the Bank of Long Island, 359 Fulton St., Jamaica, has been awarded to JOHN H. DEEVES & BRO., 103 Park Ave., New York.

✚Orchard Park, N. Y.—(Official)—Bids will be received until July 7 by Robert North, Arch., Prudential Bldg., Buffalo, for the construction of a two-story school. The estimated cost is $50,000. Noted May 13 and June 24.

Port Chester, N. Y.—Bids will be received about July 8 for the construction of a three-story high school on Irving Ave. Hewitt & Bottomley, 597 Fifth Ave., New York, is Arch. The estimated cost is $120,000. Noted May 13.

Rochester, N. Y.—Eldridge, Comes & Kauzor, Arch., 316 Cutler Bldg., is preparing plans for the construction of a building at Lexington Ave. and Finch St. for the Holy Rosary Church. Estimated cost, $60,000. Arthur H. Hughes is Pastor.

Rochester, N. Y.—Plans are being prepared by Foster & Gade, Arch., Sibley Bldg., for the construction of a two-story auditorium on University Ave. for the University of Rochester. The estimated cost is $150,000. Rush Rhees is Pres.

✚Rochester, N. Y.—R. T. FORD CO., 200 South Ave., Rochester, has been awarded the general contract for the construction of School No. 14 at Scio St. near University Ave. The estimated cost is $214,000. J. S. Mullan is Secy., Bd. of Education. Noted June 3.

✚Rochester, N. Y.—The contract for the construction of an administration building and gymnasium for the Jewish Orphan Asylum on Genesee St. has been awarded to JOHN LUTHER & SONS, 176 North St., Rochester. Estimated cost, $45,000.

Scotia, N. Y.—The Trustees of the town of Glenville, District No. 2, contemplate the construction of a school. Estimated cost, $60,000. W. F. Gates, 141 Mohawk St., is Chn.

Yonkers, N. Y.—Bids will soon be received by the Masonic Guild, F. and A. M., for the construction of a four-story Masonic Temple on Guion St. and South Broadway. The estimated cost is $70,000. Beersman & Vollmer and Evart Tracy, 244 Fifth Ave., New York, are Assoc. Archs. Noted June 24.

✚Arlington, N. J.—The general contract for the construction of a three-story parochial school with two wings, at Midland Ave. and Chestnut St., for St. Stephens Congregation, has been awarded to ROBERT W. PATRICK, 100 Montclair Ave., Newark. Estimated cost, $70,000. Noted May 6.

Bayonne, N. J.—The Jersey City Construction Co., 75 Montgomery St., Jersey City, at $40,000, submitted the lowest bid for the construction of the Hudson County Parental Home. Noted Mar. 18 and May 27.

Hoboken, N. J.—Plans are being prepared by Briscoe & Fagan, Arch., 95 River St., for the construction of a three-story addition and alterations to School No. 8, Jefferson and Seventh St. Estimated cost, $60,000. Noted June 17.

Jersey City, N. J.—Bids will be received by the Board of Chosen Freeholders of Hudson County, Court House, until July 28 for the construction of a jail at Newark Ave. and Willow Court. Noted Dec. 17 and Mar. 18.

Jersey City, N. J.—The Board of Education plans to construct Public School No. 4. Estimated cost, $90,000. John Rowland, 100 Sip Ave., is Arch. and Fred Ege, City Hall, is Clk., Bd. of Education.

Morristown, N. J.—Bids will soon be received for the construction of a two-story library for the Morristown Library and Lyceum Association. The estimated cost is $50,000. Henry C. Pitney, 6 Washington St., is Chn. of Bldg. Com.

Newark, N. J.—E. M. Waldron, Inc., 84 South Sixth St., at $65,153, was the lowest bidder on the general contract for the construction of an administration building on Clifton Ave. Noted May 6 and June 3.

Newark, N. J.—The Newark Building & Construction Co. has purchased a site at Spruce and Charlton St. The company plans to construct a five-story store and apartment building to cost about $50,000.

Passaic, N. J.—Preliminary plans have been prepared for the construction of a three-story building on Lafayette Ave. for the Passaic General Hospital. The estimated cost is $100,000. W. L. Lyall is Chn. of Bldg. Com.

Paterson, N. J.—The Board of Education plans to construct an addition and remodel Public School No. 10. The estimated cost is $125,000. James F. Dunphy, City Hall, is Clk. and Fred Wentworth, 140 Market St., is Arch. Noted Oct. 1.

Skillman, N. J.—Plans have been prepared for the construction of a service building and two cottages for the State Village for Epileptics. The estimated cost is $75,000. George S. Drew, Trenton, is State Arch.

†West New York, N. J.—(Official)—The contract for the construction of a school at Broadway and 18th St. has been awarded to FREDERICK HEARTER, Hudson Ave. and 22nd St., at $110,435. Other bids were: T. F. Ayling, 205 16th St., $113,311; Jersey City Construction Co., 75 Montgomery St., Jersey City, $110,450; G. T. Kelly, Yonkers, N. Y., $112,607; De Knipe Construction Co., West Hoboken, $111,250. Noted Apr. 15 and June 17.

†Blairsville, Penn.—The Board of Education has awarded the general contract for the construction of a two-story, 77x133-ft., brick high school to KRATT & AGNEW, Lorain, Ohio, at $60,000.

Clearfield, Penn.—The School Board has commissioned Harrington & Howard, Arch., Dubois, to prepare plans for the construction of a two-story, 125x165-ft. high school. The cost is estimated at $75,000. Noted Apr. 29.

†Dickson City, Penn.—The general contract for the construction of a 1½-story, 47x96-ft. church for the congregation of St. Thomas Apostle has been awarded to BEILMAN & SON, Scranton. The estimated cost is $60,000.

Hershey, Penn.—Plans are being prepared by C. E. Urban, Arch., Woolworth Bldg., for the construction of a two-story brick and stone theater for M. S. Hershey. The estimated cost is $50,000.

Philadelphia, Penn.—Frederick Webber, Arch. Engr., Morris Bldg., is preparing plans for the construction of a 10-story, 100x120-ft. reinforced-concrete and brick building with one wing at Ninth and Sansom St. for the Wetherill Estate. The estimated cost is $200,000. Noted June 24.

†Philadelphia, Penn.—JOHN A. FISHER, 3621 North Fifth St., Philadelphia, has been awarded the contract for the construction of a two-story, reinforced-concrete and brick school at Hutchinson St. The estimated cost is $40,000.

Philadelphia, Penn.—Plans are being prepared for the construction of a school at Second, Pike and Sanger St. in the 35th Ward. The estimated cost is $80,000.

Philadelphia, Penn.—F. W. Van Loon, Denckla Bldg., at $86,641, submitted the lowest bid for the construction of a one- and two-story brick and concrete recreation building at Price and McMahon St. for the city. Philip H. Johnson, Land Title Bldg., is Arch.

Philadelphia, Penn.—H. H. Weymeyer, Philadelphia, at $122,863, was the lowest bidder for the construction of a three-story police and fire station at 22nd St. and Hunting Park Ave. Noted Apr. 22.

Philadelphia, Penn.—Bids are being received by the Property Committee of the Board of Education for the construction of a three-story school at Lime Kiln Pike and 65th Ave., East Germantown. Estimated cost, $350,000. Noted June 24.

Pittsburgh, Penn.—Plans are being prepared by E. B. Lee, Arch., Pittsburgh Savings Bank Bldg., for the construction of a 10- or 12-story brick and steel store and loft building at Smithfield St. and Seventh Ave. for the Henry W. Oliver Estate. The estimated cost is $300,000.

†Youngwood, Penn.—The Board of Education has awarded the general contract for the construction of a high school to WALTER & JONES, Scottdale. The estimated cost is $50,000. A. Brown is Secy. of Bd.

†Baltimore, Md.—The Board of Awards has awarded the contract for the construction of a school at Jefferson and Caroline St. to the D. M. ANDREW CONTRACTING CO., 600 Equitable Bldg., Baltimore, at $87,000.

Hagerstown, Md.—H. E. Yessler, Arch., has prepared plans for the construction of an eight-story hotel on West Franklin St. for the Maryland Real Estate Co.

†Washington, D. C.—The MELTON CONSTRUCTION CO., 1012 H St., N. W., has been awarded the contract for the construction of an apartment house at 16th and I St., N. W. The estimated cost is $200,000. Noted May 20.

Washington, D. C.—Kennedy Bros., 1334 H St., N. W., contemplates the construction of a concrete house at 16th St. and Crescent Pl., N. W. The estimated cost is $600,000.

STATE HIGHWAY, WASHINGTON

†Bids were received May 24 by William R. Roy, State Highway Comr., Olympia, Wash., for the construction of a portion of the Sunset Highway from Rocklyn to Creston, from: (A) Burnett Construction Co., Seattle; (B) West Coast Construction Co., Seattle; (C) Clifton Applegate, Spokane; (D) Quigg Construction Co., Seattle; (E) Carlson Chindahl Co., Spokane; (F) Spokane Feed & Fuel Co., Spokane; (G) MOHR CONSTRUCTION CO., Waterville (awarded contract); (H) Porter & Conley and Edward Wren, Kalama; (I) Mitchell Bros., Spokane; (J) Sloane Bros., Seattle; (K) G. L. Strickler, Davenport; (L) General Construction Co., Spokane. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L
92,530 cu.yd. common excavation	$0.27	$0.32	$0.255	$0.23	$0.19	$0.25	$0.19	$0.23	$0.23	$0.22	$0.27	$0.23
25,900 cu.yd. solid rock excavation	1.00	0.90	1.20	1.00	1.10	1.21	0.85	1.35	1.15	0.80	1.05	0.96
3 acres clearing	150.00	50.00	20.00	10.00	30.00	35.00	8.00	10.00	35.00	40.00	40.00	35.00
14 cu.yd. riprap, hand placed	3.00	2.00	1.50	4.00	2.00	3.50	1.00	2.00	2.50	2.00	2.50	1.75
102 cu.yd. rubble masonry	8.00	6.00	5.00	8.00	7.00	6.50	6.00	8.00	5.00	8.00	6.00	4.00
35.5 cu.yd. concrete, Class 1	16.00	13.00	15.00	14.00	13.00	13.50	10.00	20.00	15.50	15.00	13.00	12.00
2750 lb. steel reinforcing bars in place	0.06	0.05	0.055	0.06	0.05	0.045	0.04	0.05	0.06	0.06	0.05	0.06
168 lin.ft. 12-in. plain concrete pipe in place	1.25	1.00	1.20	1.50	1.00	1.70	0.80	0.90	0.80	1.20	0.95	0.85
604 lin.ft. 18-in. plain concrete pipe in place	2.00	2.00	1.85	2.25	1.60	1.41	1.05	1.40	1.45	2.25	1.35	1.32
Loose rock excavation, per cu.yd.	0.75	0.75	0.49	0.65	0.55	0.80	0.45	0.45	0.60	0.40	0.55	0.37
Overhaul on material excavated, per cu.yd. each 100 ft.	0.03	0.03	0.02	0.025	0.02	0.015	0.025	0.02	0.015	0.02	0.01	0.02
Slope wall, per cu.yd.	5.00	6.00	4.00	6.00	3.00	3.50	2.75	6.00	4.00	2.50	2.50	2.00
Concrete, Class 2, per cu.yd.	12.00	12.00	14.50	12.00	11.00	12.50	9.50	18.00	13.50	14.00	11.00	11.00
Guard rails in place, including spikes and bolts, per lin.ft.	0.35	0.50	0.45	0.25	0.40	0.10	0.20	0.25	0.25	0.50	0.40	0.25
Timber and plank in place per M ft. b.m.	25.00	40.00	35.00	30.00	35.00	35.00	30.00	22.00	35.00	30.00	30.00	33.00
6-in. porous tile drains in place, per lin.ft.	0.20	0.80	0.40	0.60	0.20	0.20	0.35	0.15	0.25	0.45	0.25	0.18
8-in. porous tile drains in place, per lin.ft.	0.40	0.90	0.50	0.80	0.30	0.30	0.60	0.26	0.40	0.55	0.35	0.29
18-in. reinforced-concrete pipe in place, per lin.ft.	2.50	4.00	2.25	2.50	1.95	1.83	1.05	1.72	1.45	3.25	2.10	1.60
24-in. reinforced concrete pipe in place, per lin.ft.	3.50	6.00	3.00	4.00	2.75	2.83	2.25	2.58	2.15	4.00	3.25	2.30
30-in. reinforced concrete pipe in place, per lin.ft.	5.00	9.00	4.00	5.50	4.30	4.50	2.75	4.25	3.25	5.50	3.75	3.14
12-in. vitrified tile pipe in place, per lin.ft.	1.00	1.50	1.50	1.50	0.65	0.55	0.90	0.50	0.60	1.20	0.95	0.48
18-in. vitrified tile pipe in place, per lin.ft.	1.75	3.00	2.00	2.25	1.20	0.95	1.80	1.00	1.25	2.25	1.25	1.05
24-in. vitrified tile pipe in place, per lin.ft.	2.75	5.00	2.50	4.00	1.90	1.55	2.50	2.00	2.00	3.25	2.10	1.75
Extended totals	$54,342	$55,684	$57,268	$50,356	$48,636	$56,860	$41,479	$58,965	$53,442	$44,298	$54,519	$48,214

CALIFORNIA STATE HIGHWAYS

Bids were received May 24 by the California State Highway Commission, Sacramento, for the construction of Division VI, Route 10, Section A, Kings County, and Division VII, Route 4, Section A, Los Angeles County, parts of the State Highway, from: (A) Bent Bros., Los Angeles; (B) Taylor & Berliner, Los Angeles; (C) George S. Benson & Sons, Los Angeles; (D) John D. Marsh, Bakersfield; (E) W. A. Dontanville, Paso Robles; (F) Engineer's Estimate; (G) Leigh Garnsey, Los Angeles; (H) George Weigand, Lamanda Park; (I) Homer R. Kennedy and Frank Williams, Los Angeles; (J) White & Gaskill, Long Beach. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement and sand and coarse aggregate for concrete at a cost of $43,088 and $13,750 respectively, for the two highways. The item bids were as follows:

Kings County, Div. VI Route 10, Sect. A.	A	B	C	D	E	F
25,000 cu.yd. ordinary excavation	$0.84	$0.60	$0.65	$0.60	$0.60	$0.50
5000 cu.yd. borrow excavation	1.35	0.70	0.80	0.60	0.75	0.70
530 lin.ft. 12-in. corrugated pipe	0.65	0.50	0.75	0.80	0.50	0.35
488 lin.ft. 18-in. corrugated pipe	0.75	0.60	0.80	1.00	0.60	0.60
60 lin.ft. 24-in. corrugated pipe	0.95	0.70	0.90	1.20	0.75	0.85
30 lin.ft. 30-in. corrugated pipe	1.50	1.00	1.00	1.40	1.00	1.00
200 cu.yd. concrete, Class B culverts and monuments	20.00	10.00	10.00	20.00	11.00	10.00
8760 cu.yd. concrete pavement, Class B	4.15	4.00	3.00	3.20	3.75	2.90
1170 lin.ft. guard rail	0.50	0.50	0.60	0.50	0.40	0.50
54 monuments, hauling and setting	1.00	1.00	2.00	1.00	1.00	0.50
Extended totals	$69,555	$56,809	$50,212	$51,697	$54,955	$51,262

Los Angeles County, Div. VII, Route 4, Sect. A.	D	E	F	G	H	I	J
12,200 cu.yd. ordinary excavation	$0.60	$0.56	$0.40	$0.50	$0.60	$0.40	$0.55
102 lin.ft. 18-in. corrugated pipe	$0.80	$0.60	$0.45	$0.50	$0.75	$0.50	$0.75
74 lin.ft. 24-in. corrugated pipe	1.00	0.70	0.60	0.75	0.75	0.75	0.75
10 lin.ft. 36-in. corrugated pipe	1.20	1.00	0.90	1.00	1.00	1.00	1.00
95 cu.yd. concrete, Class B culverts and monuments	20.00	9.50	12.50	15.00	13.00	10.00	14.00
4120 cu.yd. concrete pavement, Class B	3.65	3.71	4.00	4.70	3.50	3.49	4.25
1756 lin.ft. guard rail	0.60	0.40	0.40	0.50	0.60	0.40	0.50
73 monuments, hauling and setting	1.00	1.00	0.50	1.00	1.50	1.00	1.00
Extended totals	$25,552	$23,918	$26,893	$27,956	$24,280	$21,101	$26,643

Washington, D. C.—Joseph J. Moebs, 817 G St., N. W., will construct a seven-story reinforced-concrete and brick apartment house at 18th and I St., N. W. Estimated cost, $60,000.

✚**Washington, D. C.**—The contract for the construction of a four-story, 75x75-ft. brick apartment house at 19th St. and Mintwood Pl., N. W., has been awarded to J. E. FOX, 37 R St., N. E. Estimated cost, $55,000.

Clarksburg, W. Va.—Plans have been prepared for the construction of a four-story building at Water and Mechanic St. to replace the Kessler Hospital. The estimated cost is $75,000. Noted June 24.

✚**Parkersburg, W. Va.**—The general contract for the construction of alterations to the Wood County Bank at Fifth and Market St. has been awarded to H. H. VOUGHT & CO., 70 East 45th St., New York. Estimated cost, $40,000. Denneson & Harris, 475 Fifth Ave., New York, N. Y., is Arch.

Gastonia, N. C.—At a recent election the citizens voted in favor of the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of schools. Noted June 17.

Atlanta, Ga.—Plans are being prepared by W. T. Downing, Arch., for the construction of a 10-story building at Walton and Fairlie St. for Frank Hawkins, Pres. of Third National Bank. Estimated cost, $100,000.

✚**Atlanta, Ga.**—The contract for the construction of a four-story school on South Pryor St. has been awarded to THOMAS J. & ALBERT L. DAY, at $50,000. Walker & Chase is Arch.

✚**Chatsworth, Ga.**—The County Commissioners have awarded the contract for the construction of a three-story, 60x80-ft. concrete court house to H. J. CARR & CO., Atlanta. The estimated cost is $50,000. A. Blair, Macon, is Arch.

Bradentown, Fla.—Plans are being prepared by J. [illegible] Cummings Bldg., for the construction of a four-story, [illegible]x168-ft. store and hotel building. Estimated cost, $45,000. G. E. Blumenauer is Constr. Engr.

New Smyrna, Fla.—At a recent election the citizens voted in favor of the question of issuing $42,000 in bonds, the proceeds of which will be used for the construction of a two-story school. A. E. Lewis, Real Estate Bldg., Miami, is Arch.

Palmetto, Fla.—An election will be held July 10 to vote on the question of issuing $50,000 in bonds. The proceeds will be used for the construction of a school. C. E. Haley is Chn. of School Bd.

Titusville, Fla.—The Board of Public Instruction will construct a grade and high school. The estimated cost is $55,000. A. E. Lewis, Miami, is Arch.

✚**Andalusia, Ala.**—The Commissioners of Covington County have awarded the contract for the construction of a courthouse to the LITTLE-CLECKER CONSTRUCTION CO., Anniston. The estimated cost is $70,000.

Birmingham, Ala.—Plans are being prepared by Miller & Martin, Arch., for the construction of a two-story, reinforced-concrete and terra-cotta store building on 20th St. The estimated cost is $45,000.

Vicksburg, Miss.—Plans are being prepared by Leon C. Weis, Arch., New Orleans, La., for the construction of a clubhouse for the M'nai B'rith Society. The estimated cost is $50,000. J. Hirsh is Pres.

CALIFORNIA STATE HIGHWAY
Colusa County, Division III, Route 7, Section C

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division III, Route 7, Section C, of the State Highway in Colusa County, from: (A) W. B. Hunt & Sons, Alameda; (B) Taylor & Berliner, Los Angeles; (C) Cammary Peterson Co., Inc., San Francisco; (D) L. F. Gerdetz, San Francisco; (E) Bent Bros., Los Angeles; (F) James Fitzpatrick, Sacramento; (G) Marin Rock Co., San Anselmo; (H) C. H. & A. W. Gorrill, San Francisco; (I) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement, sand and coarse aggregate amounting to $52,623. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
11,000 cu.yd. excavation, unclassified	$0.62	$0.70	$0.60	$0.45	$0.95	$0.50	$0.75	$0.70	$0.75
60 lin.ft. 12-in. corrugated iron pipe	0.60	0.50	1.00	0.75	0.50	0.50	0.45	0.50	0.50
180 lin.ft. 18-in. corrugated iron pipe	0.70	0.60	1.50	1.00	0.56	0.60	0.65	0.75	0.50
60 lin.ft. 24-in. corrugated iron pipe	0.80	0.70	2.00	1.25	0.60	0.70	0.75	1.00	0.50
360 cu.yd. concrete, Class "B"	10.00	10.00	12.00	9.00	11.20	8.00	9.00	10.00	10.00
10,400 cu.yd. concrete pavement	3.00	2.90	3.10	3.00	3.70	3.25	2.84	2.85	2.90
750 lin.ft. guard rail	0.50	0.40	0.25	0.40	0.40	0.40	0.32	0.35	0.35
62 monuments, hauling and setting	0.60	1.00	1.00	1.00	0.95	1.00	1.50	1.00	1.00
Extended totals	$42,242	$42,002	$43,859	$40,052	$53,488	$42,722	$41,548	$41,489	$48,857

CALIFORNIA STATE HIGHWAY
Monterey County, Division V, Route 2, Section B

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division V, Route 2, Section B of the State Highway in Monterey County, from: (A) W. A. Dontanville, Paso Robles; (B) Manuel Jacinto, Sacramento; (C) Lou G. Hare, Salinas; (D) C. H. & A. W. Gorrill, San Francisco; (E) James Fitzpatrick, Sacramento; (F) Peterson & Grier, San Francisco; (G) Hoffman & McLaren, Oakland; (H) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe, portland cement, sand and coarse aggregate amounting to $45,352. The item bids were as follows:

	A	B	C	D	E	F	G	H
11,200 cu.yd. excavation, unclassified	$0.60	$0.60	$0.57	$0.85	$0.70	$0.65	$0.70	$0.40
710 lin.ft. 12-in. corrugated iron pipe	0.50	1.00	0.40	0.50	0.50	0.50	0.50	0.40
245 lin.ft. 18-in. corrugated iron pipe	0.60	1.00	0.60	0.60	0.75	0.75	0.75	0.45
135 lin.ft. 24-in. corrugated iron pipe	0.70	1.00	0.80	0.90	1.00	1.00	1.00	0.55
120 cu.yd. concrete, Class "B"	9.50	10.00	12.00	10.00	15.00	12.00	11.00	8.70
4600 cu.yd. concrete pavement	2.55	3.70	3.10	3.77	4.00	3.00	4.00	4.30
220 lin.ft. guard rail	0.40	0.40	0.35	0.35	0.50	0.40	0.50	0.40
66 monuments, hauling and setting	1.00	2.00	0.50	1.00	1.00	1.50	1.00	0.50
Extended totals	$20,340	$26,250	$22,733	$28,828	$28,890	$23,381	$28,410	$29,777

STATE HIGHWAY, WHITMAN COUNTY, WASHINGTON

✚Bids were received, May 24, by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Inland Empire Highway, from Colfax, south in Whitman County, from: (A) Henry Styles, Tacoma; (B) Carlson Chindahl Co., Spokane; (C) W. G. Mulligan & Co., Spokane; (D) H. L. WILSON CO., Walla Walla (awarded contract); (E) G. L. Stickler Co., Davenport; (E) General Construction Co., Spokane; (G) O. F. Leonard, North Yakima; (H) Mitchell Bros. & Payne, Spokane; (I) Dunn & Hogan, North Yakima; (J) Boomer & Hughes, Spokane. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
40,720 cu.yd. common excavation, including haul of 400 ft	$0.25	$0.19	$0.20	$0.20	$0.21	$0.17	$0.19	$0.215	$0.175	$0.22
250 cu.yd. loose rock excavation, including haul of 400 ft	0.50	0.50	0.45	0.45	0.45	0.50	0.60	0.50	0.40	0.40
2740 cu.yd. solid rock excavation, including haul of 400 ft	1.25	1.00	1.20	0.95	1.15	1.07	1.50	1.10	1.00	1.25
28,500 cu.yd. overhaul on any of the above materials, per each 100 ft	0.015	0.02	0.01	0.0125	0.01	0.015	0.02	0.0125	0.02	0.02
Rip rap, hand placed per cu.yd	3.50	2.00	3.00	2.50	2.50	2.00	2.50	2.50	1.50	2.50
Slope wall, per cu.yd	4.00	3.00	1.70	2.50	3.00	2.25	3.00	4.00	1.75	3.50
Rubble masonry, per cu.yd	6.00	8.00	4.50	5.00	6.50	5.00	8.00	5.00	4.00	11.50
55.0 cu.yd. concrete, first class	5.00	14.00	15.50	12.50	13.00	13.00	13.50	14.00	11.75	15.00
3320 cu.yd. concrete, second class	4.00	12.00	14.00	11.50	12.00	11.75	12.00	12.00	11.00	13.50
8800 lb. steel I-beams and structural shapes in place	0.10	0.07	0.055	0.04	0.05	0.06	0.075	0.055	0.06	0.055
1350 lb. steel reinforcing bars in place	0.10	0.05	0.05	0.04	0.05	0.06	0.06	0.055	0.04	0.05
1840 sq.ft. expanded metal in place	0.10	0.10	0.10	0.08	0.08	0.065	0.10	0.09	0.18	0.08
880 sq.ft. chicken wire in place	0.05	0.04	0.015	0.02	0.03	0.03	0.06	0.05	0.06	0.03
210 lin.ft. pipe rail in place	1.00	1.00	0.45	0.75	0.50	0.65	0.80	0.50	0.20	0.80
Guard rail in place, including spikes and bolts per lin.ft.	0.40	0.40	0.70	0.30	0.40	0.25	0.30	0.25	0.12	0.25
Timber and plank in place, including spikes and bolts per lin.ft. b.m.	40.00	35.00	39.00	30.00	30.00	35.00	33.00	32.00	25.00	30.00
80 lin.ft. porous tile drains in place, 6 in.	0.30	0.20	0.16	0.15	0.25	0.18	0.25	0.25	0.35	0.30
Porous tile drains in place, 8 in. per lin.ft.	0.45	0.30	0.30	0.20	0.35	0.29	0.40	0.40	0.45	0.45
Plain concrete pipe in place, 12 in. per lin.ft.	1.00	1.00	0.55	0.65	0.95	0.87	1.30	0.80	1.00	0.70
694 lin.ft. plain concrete pipe in place, 18 in.	1.85	1.60	1.25	0.75	1.35	1.35	2.00	1.45	1.50	1.45
Reinforced concrete pipe in place, 18 in. per lin.ft.	2.60	1.95	1.65	0.95	2.10	1.65	2.50	1.45	1.75	1.45
146 lin.ft. reinforced concrete pipe in place, 24 in.	3.85	2.75	2.60	1.25	3.25	2.40	3.25	2.15	2.25	2.20
Reinforced concrete pipe in place, 30 in. per lin.ft.	4.50	4.50	4.50	1.50	3.75	3.25	3.75	3.25	3.00	3.00
Reinforced concrete pipe in place, 36 in. per lin.ft.	6.00	5.15	5.25	2.00	4.75	4.08	4.50	4.25	3.90	4.00
Vitrified tile pipe in place, 12 in. per lin.ft.	1.00	0.65	0.50	0.40	1.00	0.52	1.30	0.60	0.75	1.00
Vitrified tile pipe in place, 18 in. per lin.ft.	1.80	1.20	1.25	0.60	1.25	1.15	1.80	1.25	1.25	1.80
Vitrified tile pipe in place, 24 in. per lin.ft.	3.60	1.90	2.40	0.95	2.10	1.85	2.50	2.00	1.75	2.75
Concrete arch, 40-ft. span (lump sum)	2750.00	2361.00	2470.00	2065.00	2450.00	2041.00	1726.00	3200.00	2200.00	2400.00
Extra concrete per cu.yd.	.....	.....	.....	13.00	.....	.....	13.00	.....	.....	.....
Extended totals	$257,03	$20,927	$21,903	$19,229	$21,466	$19,257	$22,047	$22,417	$19,440	$23,005

✚**Bastrop, La.**—The Parish Board of School Directors has awarded the general contract for the construction of a high school to FRANK MASTING, Monroe, at $55,287. W. L. Stevens, New Orleans, is Arch. Noted June 3.

Chattanooga, Tenn.—Plans are being prepared by W. M. De Knab, Arch., for the construction of the Shenn Memorial Church at Main and Hickory St. for the Universalist Church. The estimated cost is $50,000.

Nashville, Tenn.—At a recent election the citizens voted in favor of the question of issuing $600,000 in bonds. The proceeds will be used for the construction of schools.

Ashland, Ky.—An election will be held July 5 to vote on the question of issuing $125,000 in bonds, the proceeds of which will be used for the construction of a city jail and market house.

✚**Lexington, Ky.**—The contract for the construction of a church for the Maxwell Street Presbyterian Congregation has been awarded to A. G. McGREGOR, Lexington. Estimated cost, $40,000. Richards, McCarthy & Bulford, Columbus, Ohio, is Arch.

✚**Louisville, Ky.**—The contract for the construction of the Belknap School has been awarded to the ALT BUILDING CO., Louisville, at $68,500.

Canton, Ohio—Bids will be received until noon, July 8, by W. C. Lane, Clk., Bd. of Education, for the construction of a three-story, brick school at Third St., S. E., to be known as the Henry S. Martin School. The estimated cost is $75,000. Frank L. Packard, 1212 Tayden Bldg., Columbus, is Arch.

Cincinnati, Ohio—The Board of Trustees of the Chamber of Commerce is considering the construction of a building. The estimated cost is $1,000,000.

STATE HIGHWAY, LEWIS AND COWLITZ COUNTIES, WASHINGTON

✚Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Pacific Highway in Lewis and Cowlitz Counties, from Toledo south, from: (A) Allred & James, Centralia; (B) M. P. Zindorf, Alaska Bldg., Seattle; (C) A. J. Miesen and J. A. Sandell, Chehalis; (D) Cochran, Nutting & Co., St. Johns, Ore.; (E) ANDREW & HARRER, Portland, Ore. (awarded contract); (F) Hendricks, Ward, Ryan & Gray, Chehalis; (G) Sloane Bros., Seattle; (H) Jeffrey & Bufton, Union Ave. and East Davis St., Portland, Ore. The item bids were as follows:

	A	B	C	D	E	F	G	H
38,160 cu.yd. excavation, including haul of 400 ft.	$0 34	$0 30	$0 40	$0 30	$0 26	$0 29	$0 30	$0 47
22,800 cu.yd. overhaul on above material, per each 100 ft.	0 05	0 015	0 025	0 03	0 02	0 02	0 015	0 02
21.1 acres clearing	150 00	93 00	114 00	75 00	80 00	170 00	100 00	200 00
28.2 acres grubbing	200 00	130 00	274 00	125 00	140 00	150 00	100 00	206 00
25.0 cu.yd. riprap hand placed	8 00	2 50	4 50	3 50	4 00	3 00	3 00	4 60
9 cu.yd. concrete, first class	20 00	14 00	13 10	18 00	16 50	12 00	15 00	17 00
54 cu.yd. concrete, second class	15 00	10 00	13 10	16 00	15 50	10 00	12 00	15 00
1280 lb. steel reinforcing bars in place	0 10	0 05	2 56	0 07	0 05	0 06	0 06	0 05
Lin.ft. guard rail in place, including spikes and bolts	0 25	0 30	.....	0 20	0 30	0 25	0 30	0 35
9.0 M ft. b.m. timber and plank in place, including spikes and bolts	25 00	22 00	26 00	22 50	28 00	25 00	25 00	20 00
Porous tile drains in place, 4-in. per lin.ft.	0 15	0 50	0 20	0 15	0 20	0 25	0 35	0 20
Porous tile drains in place, 6-in. per lin.ft.	0 25	0 60	0 30	0 20	0 25	0 35	0 45	0 35
Porous tile drains in place, 8-in. per lin.ft.	0 35	0 70	0 45	0 25	0 30	0 50	0 50	0 40
594 lin.ft. plain concrete pipe in place, 12-in.	2 50	1 00	1 22	1 10	1 25	1 00	1 10	2 00
246 lin.ft. plain concrete pipe in place, 18-in.	3 50	2 00	1 84	1 60	2 75	2 00	2 25	3 00
Reinforced concrete pipe in place, 18-in. per lin.ft.	5 00	3 00	2 61	2 50	3 00	2 75	3 25	3 50
68 lin.ft. reinforced concrete pipe in place, 24-in.	6 50	3 50	3 89	3 75	4 25	3 75	4 25	5 00
Reinforced concrete pipe in place, 30-in. per lin.ft.	7 00	4 00	4 50	4 25	4 90	5 00	4 75	5 50
84 lin.ft. reinforced concrete pipe in place, 36-in.	8 00	4 50	5 93	6 50	5 50	6 00	5 00	6 00
Reinforced concrete pipe in place, 42-in. per lin.ft.	8 75	10 00	7 65	9 50	6 00	8 00	8 00	7 00
Vitrified tile pipe in place, 12-in. per lin.ft.	1 50	1 00	0 75	1 00	1 00	1 00	1 10	1 50
Vitrified tile pipe in place, 18-in. per lin.ft.	3 00	1 75	1 50	1 50	1 75	1 50	2 25	2 00
Vitrified tile pipe in place, 24-in. per lin.ft.	4 50	3 00	2 50	2 00	3 00	2 50	3 50	3 50
Extended totals	$27,922	$20,111	$32,355	$20,493	$19,585	$22,209	$19,796	$32,328

STATE HIGHWAY, THURSTON COUNTY, WASH.

✚Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a portion of the Pacific Highway from Lacey to Nisqually, in Thurston County, from: (A) Burnett Construction Co., Seattle; (B) Allred & James, Centralia; (C) L. H. GOERIG, 1027 Bellevue Court, Seattle (awarded contract); (D) West Coast Construction Co., Seattle; (E) Porter & Conley, Kalama; (F) Arvid Rydstrom, Tacoma; (G) Rignell & Rankston, Tacoma; (H) Matson & Carlson, Tacoma; (I) Charles N. & Erle Maxham, Tacoma; (J) Sloane Bros., Seattle; (K) Washington Paving Co., Tacoma; (L) Torger Peterson, Eatonville; (M) M. P. Zindorff, Seattle. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
50,320 cu.yd. excavation, including haul of 400 ft.	$0.26	$0.34	$0.24	$0.30	$0.32	$0.35	$0.26	$0.25	$0.30	$0.27	$0.38	$0.32	$0.245
32,600 cu.yd. overhaul on above material per each 100 ft.	0.02	0.05	0.015	0.025	0.02	0.02	0.015	0.0175	0.01	0.02	0.015	0.015	0.015
8.6 acres clearing	175.00	125.00	100.00	150.00	100.00	75.00	100.00	125.00	125.00	180.00	150.00	150.00	63.00
5.5 acres grubbing	200.00	200.00	100.00	200.00	150.00	100.00	175.00	150.00	125.00	75.00	100.00	100.00	65.00
Riprap, hand placed per cu.yd	4.00	8.00	4.00	6.00	3.00	3.50	6.00	4.00	3.50	3.00	2.50	2.25	3.00
70 cu.yd. concrete, first class	14.00	20.00	12.00	14.00	14.00	12.00	12.00	12.00	12.00	15.00	12.00	10.00	15.00
2 cu.yd. concrete, second class	12.00	15.00	11.00	12.00	12.00	10.00	10.00	11.00	11.00	7.00	10.00	8.00	12.00
5,600 lb. steel reinforcing bars in place	0.06	0.10	0.06	0.06	0.06	0.08	0.10	0.05	0.07	0.06	0.05	0.05	0.06
1800 lin.ft. guard rail in place, including spikes and bolts	0.30	0.25	0.10	0.30	0.25	0.25	0.35	0.30	0.25	0.35	0.25	0.20	0.20
30 M ft. timber and plank in place, including spikes and bolts	20.00	25.00	20.00	20.00	28.00	25.00	20.00	20.00	22.50	20.00	25.00	20.00	22.00
Porous tile drains in place, 4-in. per lin.ft.	0.15	0.15	0.25	0.40	0.25	0.20	0.25	0.20	0.18	0.30	0.30	0.15	0.40
Porous tile drains in place, 6-in. per lin.ft.	0.20	0.25	0.30	0.60	0.40	0.30	0.30	0.30	0.20	0.40	0.35	0.20	0.50
Porous tile drains in place, 8-in. per lin.ft.	0.40	0.35	0.35	0.80	0.60	0.40	0.35	0.50	0.25	0.50	0.60	0.35	0.65
72 lin.ft. plain concrete pipe in place, 12-in.	1.00	2.50	1.25	1.30	1.00	1.30	1.50	0.90	0.50	1.20	1.00	1.00	1.00
92 lin.ft. plain concrete pipe in place, 18-in.	1.90	3.50	2.00	2.25	2.00	2.00	2.50	2.00	1.00	2.25	1.75	1.25	2.00
Reinforced concrete pipe in place, 18-in. per lin.ft.	2.50	4.50	2.50	4.00	2.50	3.00	3.00	3.00	1.00	3.25	2.50	2.50	3.00
50 lin.ft. reinforced concrete pipe in place, 24-in.	3.50	5.50	3.00	6.00	4.00	4.00	4.50	4.00	1.75	4.00	3.00	3.50	3.50
Reinforced concrete pipe in place, 30-in. per lin.ft.	6.00	6.50	4.50	7.00	5.00	5.00	6.00	6.00	2.75	5.00	6.00	3.50	4.00
Vitrified tile pipe in place, 12-in. per lin.ft.	0.80	1.50	1.25	1.20	1.00	1.50	1.50	0.90	0.65	1.20	1.00	0.75	1.20
Vitrified tile pipe in place, 18-in. per lin.ft.	1.75	3.00	2.00	2.10	1.75	2.50	2.50	2.00	1.25	2.25	1.75	1.50	1.85
Vitrified tile pipe in place, 24-in. per lin.ft.	2.75	4.50	3.00	3.00	2.75	3.50	4.00	4.00	2.00	3.00	2.50	2.25	3.00
Extended totals	$19,242	$24,880	$16,378	$21,381	$21,525	$22,444	$18,608	$17,781	$19,779	$19,322	$24,173	$20,749	$16,589

CALIFORNIA STATE HIGHWAYS
Humboldt County, Division I, Route 1, Section E

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division I, Route 1, Section E, a part of the State Highway in Humboldt County. The bidders were: (A) W. B. Hunt & Sons, Alameda; (B) Frank L. Smith Co., Eureka; (C) Bates, Borland & Ayer, Oakland; (D) A. C. McLean Construction Co., San Francisco; (E) L. F. Gerdetz, San Francisco; (F) Twohy Bros. Co., San Francisco; (G) Hoffman & McLaren, Oakland; (H) Fairbanks & Baechtel, Willits; (I) James Fitzpatrick, Sacramento; (J) Mercer-Fraser Co., Eureka; (K) G. W. Conners, Eureka; (L) F. Rolandi, San Francisco; (M) W. A. Baechtel, Alton; (N) A. Robinson & R. R. Smith, Fortuna; (O) Crowley, Clomey & Green, Eureka; (P) Engineer's Estimate. The state will furnish pipe railing for culverts, reinforcing steel, corrugated iron pipe and portland cement amounting to $20,021. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
89,000 cu.yd. excavation unclassified	$0.70	$0.69	$0.52	$0.70	$0.50	$0.72	$0.55	$0.58	$0.65	$0.645	$0.5975	$0.77	$0.69	$0.64	$0.74	$0.55
1466 lin.ft. 12-in. corrugated iron pipe	0.60	0.60	0.50	0.50	0.60	0.65	0.40	0.55	0.60	0.55	0.45	0.60	1.00	0.55	0.60	0.55
316 lin.ft. 15-in. corrugated iron pipe	0.70	0.70	0.60	0.60	0.75	0.75	0.50	0.65	0.75	0.70	0.50	0.75	1.00	0.67	0.80	0.65
354 lin.ft. 18-in. corrugated iron pipe	0.80	0.70	0.75	0.70	1.00	0.90	0.60	0.75	1.00	0.80	0.55	0.90	1.00	0.75	1.00	0.80
412 lin.ft. 24-in. corrugated iron pipe	0.90	0.75	1.00	1.00	1.20	1.30	1.00	1.00	1.25	1.10	0.60	1.25	1.00	1.00	1.25	1.10
274 lin.ft. 30-in. corrugated iron pipe	1.00	0.75	1.50	1.50	1.50	2.30	1.50	1.00	1.50	1.60	0.70	1.75	1.00	1.50	1.50	1.60
342 cu.yd. concrete, Class "B", (culverts and monuments)	10.00	12.00	15.00	15.00	14.00	13.50	10.00	14.00	14.00	12.00	12.00	15.00	12.50	12.00	15.00	12.00
7.3 miles moving and resetting property fences	200.00	150.00	200.00	200.00	350.00	180.00	200.00	250.00	200.00	250.00	160.00	200.00	200.00	240.00	300.00	250.00
180 monuments, hauling and setting	0.60	0.75	1.00	1.00	1.00	1.00	1.00	1.00	1.50	1.50	1.00	1.00	1.00	0.50	1.00	0.50
Extended totals	$69,317	$68,607	$55,061	$71,063	$54,399	$72,865	$55,790	$60,376	$66,765	$65,806	$60,081	$77,730	$70,147	$65,012	$75,772	$65,729

Cincinnati, Ohio—The Members of the Mystic Shrine of Cincinnati have purchased the old Guilford School property on Sycamore St. near Fourth St., upon which they will construct a building. The estimated cost is $1,000,000.

Cincinnati, Ohio—The Directors of the Longview Hospital have petitioned the Hamilton County Commissioners to vote on the question of issuing $250,000 in bonds, the proceeds of which will be used for the construction of additions to their present buildings.

✚**Cleveland, Ohio**—The contract for the construction of a hotel for the Stillman Amusement Co., Buffalo, N. Y., has been awarded to the CROWELL, LUNDOFF, LITTLE CO., 1951 East 57th St., Cleveland. The estimated cost is $700,000. Noted Apr. 15.

Cleveland, Ohio—The Cleveland & Youngstown R.R. Co. will construct freight and passenger terminals at Broadway and Orange Ave. O. P. Van Sweringen, Marshall Bldg., is Pres.

Cleveland, Ohio—Plans are being prepared by Richard Irvin, Arch., Union Bank Bldg., Pittsburgh, Penn., for the construction of an eight-story reinforced-concrete brick building at Lakeside Ave. and East Third St. for Harry J. Schlosser, Erie, Penn. Estimated cost, $120,000.

Cleveland, Ohio—Bids will be received until 4 p. m. July 9, by Carl Lorenz, Secy., Cleveland Public Library, 1375 Euclid Ave., for the construction of a library at East 9th St. near Superior Ave. Noted Feb. 25 and June 10.

Cleveland, Ohio—Plans are being prepared and bids will soon be received for the construction of a dancing academy at East 105th St. and Euclid Ave. for H. O. Ostertag. The estimated cost is $50,000. Noted May 6.

Cleveland, Ohio—Bids will be received about July 20 by W. S. Lougee, Arch., Marshall Bldg., for the construction of additions and alterations to the Meckes Homestead at Franklin Ave., N. W. The building will be used as a county juvenile detention home. The estimated cost is $65,000. Noted Mar. 25.

WESTON AQUEDUCT SUPPLY MAINS, NEWTON, MASS.
Section 5

✚Bids were received Apr. 26 by the Metropolitan Water Board, Boston, for laying water pipes in Newton, Section 5 of the Weston Aqueduct Supply Mains, from: (A) ANDREW M. CUSACK, Boston (awarded contract); (B) James L. Pierce & Co., Boston; (C) Rowe Contracting Co., Boston; (D) Coleman Bros., Boston; (E) Bruno & Petitti, Boston; (F) John P. Cavanaugh Co., Boston; (G) M. Russo & Son Co., Boston; (H) Charles A. Kelly, Somerville; (I) Hugh Nawn Contracting Co., Boston; (J) John T. Shea, Jr., Boston; (K) Moore & Co., Boston. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K
8000 lin.ft. laying 60-in. c.i. pipe	$3.74	$3.85	$3.85	$4.10	$4.15	$4.25	$4.30	$4.40	$4.50	$4.48	$5.75
110 lin.ft. laying 12-in. c.i. pipe, for blow-offs	1.00	1.00	1.25	1.00	1.00	1.75	1.50	1.25	2.00	1.00	1.00
680 cu.yd. rock excavation above grade	7.40	5.00	6.00	4.00	3.00	8.00	8.00	6.00	4.00	7.00	8.00
5 cu.yd. rock excavation below grade	7.40	5.00	6.00	5.00	4.00	8.00	8.00	6.00	6.00	10.00	10.00
30 cu.yd. earth excavation below grade	1.50	1.00	2.00	1.00	1.25	2.00	1.60	1.00	1.00	1.50	1.75
5 chambers for air valves	49.00	40.00	50.00	30.00	40.00	50.00	50.00	50.00	50.00	50.00	30.00
4 chambers for blow-off and by-pass valves	55.00	50.00	60.00	95.00	50.00	60.00	65.00	75.00	50.00	60.00	35.00
1 chamber for 36-in. valve	55.00	50.00	60.00	95.00	60.00	60.00	80.00	75.00	60.00	75.00	60.00
60 cu.yd. concrete masonry	6.75	5.00	6.50	7.00	7.00	8.00	7.00	7.00	7.50	7.00	10.00
Extended totals	$32,369	$32,615	$33,047	$34,730	$34,787	$36,762	$37,103	$37,522	$37,960	$38,290	$48,602

SEWER SYSTEM AND SEWAGE-DISPOSAL PLANT, CLEBURNE, TEX.

✚Bids were received June 4 by Charles Wilhite, City Secy., for the construction of a sanitary sewer system and a sewage-disposal plant from (A) HAMILTON BROS., Houston (awarded contract); (B) Brown Bros., Kansas City, Mo.; (C) Bash & Janes, Joplin, Mo.; (D) William F. Riley, St. Louis, Mo.; (E) Roach Manigan, Ft. Worth; (F) James A. Pringle, Carthage, Mo.; (G) Henry Rees, Quincy, Ill.; (H) George O. White & Co., Memphis, Tenn.; (I) Tonkawa Construction Co., Kansas City, Mo.; (J) Edgar Main, Liberty, Mo.; (K) J. R. Sutherlin Construction Co., Kansas City, Mo.; (L) Intermountain Bridge & Construction Co., Tecumseh, Neb.; (M) H. C. Gass, San Antonio; (N) Winslett Eldridge Co., Dallas; (O) Bailey Reeder Co., Mobile, Ala.; (P) Koehler-Fowler Construction Co., Memphis, Tenn.; (Q) V. M. Washem & Co., Waco; (R) H. K. McCullum, Ft. Worth; (S) McKenzie Construction Co., San Antonio. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
125,278 lin.ft. 8-in. vitrified sewer pipe	$0.18	$22.5	$0.25	$0.24	$0.22	$0.22	$0.23	$0.21	$0.25	$0.22
18,575 lin.ft. 10-in. vitrified sewer pipe	0.25	0.29	0.34	0.30	0.28	0.29	0.295	0.26	0.34	0.31
13,791 lin.ft. 12-in. vitrified sewer pipe	0.40	0.37	0.42	0.40	0.36	0.36	0.35	0.33	0.45	0.39
6280 lin.ft. 15-in. vitrified sewer pipe	0.60	0.525	0.60	0.60	0.55	0.52	0.50	0.47	0.65	0.60
2956 lin.ft. 18-in. vitrified sewer pipe	0.85	0.77	0.95	0.80	0.78	0.75	0.71	0.70	0.90	0.83
8781 lin.ft. 21-in. vitrified sewer pipe	1.15	1.11	1.35	1.00	1.20	1.10	0.93	1.02	1.40	1.05
12 lin.ft. 8-in. c.i. pipe	0.60	0.90	0.80	1.00	0.875	1.00	1.00	0.90	0.80	0.75
60 lin.ft. 10-in. c.i. pipe	0.825	1.08	1.00	1.25	1.05	1.25	1.25	1.20	1.00	1.00
24 lin.ft. 12-in. c.i. pipe	1.05	1.44	1.30	1.50	1.32	1.75	1.50	1.50	1.40	1.10
120 lin.ft. 18-in. c.i. pipe	1.87	2.70	2.40	1.00	1.96	2.50	2.50	2.00	2.40	1.75
264 lin.ft. 21-in. c.i. pipe	2.25	3.10	2.80	4.00	2.50	3.25	2.50	2.90	3.00	2.10
115,615 lin.ft. 6 ft. trench	0.12	0.16	0.11	0.17	0.14	0.15	0.16	0.22	0.18	0.10
27,660 lin.ft. 6 ft. to 8 ft. trench	0.25	0.19	0.13	0.20	0.20	0.20	0.20	0.27	0.20	0.16
27,060 lin.ft. 8 ft. to 10 ft. trench	0.29	0.24	0.21	0.30	0.40	0.30	0.25	0.35	0.25	0.27
3675 lin.ft. 10 ft. to 12 ft. trench	0.40	0.60	0.60	0.50	0.60	0.40	0.30	0.50	0.35	0.30
1690 lin.ft. 12 ft. to 16 ft. trench	0.88	0.90	0.90	0.90	0.75	0.60	0.45	0.90	0.60	0.98
3140 6-in. on 8-in. Y-connections	0.72	0.35	0.35	0.25	0.35	0.40	0.37	0.40	0.45	0.35
335 6-in. on 10-in. Y-connections	0.97	0.50	0.55	0.30	0.45	0.55	0.47	0.60	0.60	0.57
255 6-in. on 12-in. Y-connections	1.26	0.60	0.75	0.40	0.75	0.65	0.60	0.75	0.75	0.75
57 6-in. on 15-in. Y-connections	1.81	1.00	1.00	0.50	1.25	1.00	0.865	1.00	1.10	1.00
35 6-in. on 18-in. Y-connections	2.80	1.40	1.30	0.70	1.65	1.50	1.30	1.50	1.60	1.25
286 manholes	49.00	27.00	25.00	28.00	29.00	27.50	30.00	25.00	24.00	30.00
50 flush tanks	75.00	64.00	55.00	60.00	65.00	55.00	62.00	55.00	62.00	65.00
52 lampholes	6.00	7.00	7.00	7.00	10.00	7.50	8.00	6.00	8.00	6.00
11900 cu yd. rock excavation	1.00	1.80	1.25	1.75	1.50	2.25	2.50	1.75	1.50	2.75
151.5 portland cement	11.00	9.00	9.00	7.00	9.00	10.00	7.00	10.00	8.00	10.00
Lumber	30.00	40.00	15.00	30.00	30.00	40.00		30.00	30.00	20.00
Sewage disposal plant complete	28,194.00	24,000.00	34,400.00	24,000.00	31,409.96	28,975.00	25,648.00	26,000.00	26,000.00	29,435.00
Extended totals	$144,527	$148,818	$151,187	$152,468	$155,296	$155,328	$156,408	$156,832	$156,833	$158,450

	K	L	M	N	O	P	Q	R	S
125,278 lin.ft. 8-in. vitrified sewer pipe	$0.20	$0.20	$0.18	$0.22	$0.25	$20.5	$0.25	$0.26	$0.26
18,575 lin.ft. 10-in. vitrified sewer pipe	0.27	0.30	0.24	0.27	0.34	26.5	0.33	0.33	0.34
13,791 lin.ft. 12-in. vitrified sewer pipe	0.36	0.40	0.32	0.37	0.44	33.5	0.41	0.43	0.43
6280 lin.ft. 15-in. vitrified sewer pipe	0.53	0.60	0.44	0.50	0.63	46.5	0.57	0.62	0.63
2956 lin.ft. 18-in. vitrified sewer pipe	0.80	0.80	0.62	0.73	0.93	0.69	0.84	0.90	0.90
8781 lin.ft. 21-in. vitrified sewer pipe	1.12	1.10	0.85	1.05	1.19	98.5	1.28	1.30	1.25
12 lin.ft. 8-in. c.i. pipe	0.95	1.50	1.00	1.00	1.00	1.21	84.5	0.95	1.00
60 lin.ft. 10-in. c.i. pipe	1.40	2.00	1.40	1.25	1.38	1.65	1.10	1.25	1.31
24 lin.ft. 12-in. c.i. pipe	1.75	2.50	1.80	1.50	1.75	2.10	1.37	1.40	1.50
120 lin.ft. 18-in. c.i. pipe	3.10	3.50	3.10	2.75	3.15	3.75	2.35	2.75	2.75
264 lin.ft. 21-in. c.i. pipe	3.60	4.00	3.80	3.50	3.75	4.50	2.89	3.20	3.50
115,615 lin.ft. 6 ft. trench	0.18	0.14	0.32	0.15	0.325	0.30	0.35	0.40	0.40
27,660 lin.ft. 6 ft. to 8 ft. trench	0.23	0.20	0.35	0.22	0.455	0.37	0.38	0.48	0.50
27,060 lin.ft. 8 ft. to 10 ft. trench	0.30	0.30	0.40	0.30	0.62	0.44	0.40	0.78	0.80
3675 lin.ft. 10 ft. to 12 ft. trench	0.40	0.40	0.55	0.73	0.91	0.60	0.60	0.90	0.90
1690 lin.ft. 12 ft. to 16 ft. trench	0.60	0.80	0.65	0.92	1.39	0.80	0.80	1.20	1.25
3140 6-in. on 8-in. Y-connections	0.35	0.60	0.50	0.47	0.35	0.35	0.22	0.65	0.65
335 6-in. on 10-in. Y-connections	0.50	0.80	0.70	0.58	0.45	0.46	0.34	0.80	0.80
255 6-in. on 12-in. Y-connections	0.55	1.00	1.10	0.75	0.60	0.59	0.45	0.90	0.90
57 6-in. on 15-in. Y-connections	1.00	1.50	1.35	1.25	0.85	0.85	0.75	1.30	1.40
35 6-in. on 18-in. Y-connections	1.50	2.00	1.90	1.75	1.25	1.28	1.17	2.00	2.00
286 manholes	27.50	32.00	33.00	0.45	35.00	38.00	40.00	40.00	40.00
50 flush tanks	75.00	60.00	75.00	60.00	70.00	75.00	30.00	85.00	90.00
52 lampholes	5.00	10.00	6.00	10.00	12.00	5.00	20.00	10.00	12.00
11900 cu.yd. rock excavation	2.25	2.50	1.20	2.25	0.01	2.50	2.00	3.00	3.00
151.5 portland cement	7.00	8.00	9.00	10.00	10.00	8.00	9.00	12.00	13.00
Lumber	30.00	30.00	50.00	50.00	25.00	27.00	30.00	35.00	40.00
Sewage disposal plant complete	27,990.00	30,500.00	29,420.65	31,885.50	30,000.00	33,000.00	37,920.00	32,485.00	33,000.00
Extended totals	$159,034	162,$965	$168,409	$167,916	$183,509	$191,354	$204,983	$238,756	$240,857

Cleveland, Ohio—Preliminary plans have been prepared by Charles W. Hopkinson, Arch., 900 Rose Bldg., for the construction of a two-story gymnasium for the Western Reserve University. The estimated cost is $150,000. Charles F. Thwing is Pres. Noted Oct. 15.

Cleveland, Ohio—Preliminary plans have been prepared by W. S. Lougee, Arch., 500 Marshall Bldg., for the construction of a lodge building for the Cleveland Bricklayers Benevolent Association. Estimated cost, $50,000. W. E. Potter, 498 East 117th St., is Secy. Noted June 10.

Cleveland, Ohio—Plans have been prepared by W. R. McCormack, Arch., Board of Education Bldg., East Sixth St. and Rockland Ave. for the construction of a six-story high school and office building. The estimated cost is $1,000,000. Noted Mar. 25.

Cleveland Heights, Ohio—(Warrensville post office)—Bids will soon be received by Ezra K. Bryan, Clk. Bd. of Education, Parkdale Ave., for the construction of a two-story grade school. The estimated cost is $75,000. Franz C. Warner, 767 Hippodrome Bldg., Cleveland, is Arch. Noted May 6 and 20.

Columbus, Ohio—Plans have been prepared by J. B. Martin, East Liverpool, for the construction of a church on West Fifth St. for the Grace United Brethren Congregation. Estimated cost, $50,000.

Dayton, Ohio—Plans have been prepared by W. H. Simms and C. H. Simms for the construction of a five-story, 85x100-ft. reinforced-concrete building to be known as the Advertising Bldg., on Jefferson St. between Second and Third St. The estimated cost is $100,000.

East Cleveland, Ohio—Plans are being prepared by W. H. Nicklas, Arch., 1900 Euclid Ave., for the construction of additions to the Chambers and Rozelle Schools at East Cleveland. Estimated cost, $50,000.

East Liverpool, Ohio—The city contemplates the construction of a two-story market house. The estimated cost is $40,000. P. V. Scheiber is Mayor and E. J. Smith is Dir. of Pub. Ser.

East Moline, Ohio—At a recent election the citizens voted in favor of the question of issuing $75,000 in bonds, the proceeds of which will be used for the construction of a high school.

Indian View, Ohio—(Plainville post office)—Tietig & Lee, Arch., 901 Fouth National Bank Bldg., Cincinnati, is preparing plans for the construction of a two- and three-story brick and stone building for the Rock Hill Sanitarium Co. Estimated cost, $60,000.

McCutchenville, Ohio—Bids will be received about July 14 by Albert Pretzinger and Edward P. Musselman, Archs., 1155 Reibold Bldg., Dayton, for the construction of a two-story school. Estimated cost, $75,000. Noted Feb. 18.

Marion, Ohio—Preliminary plans are being prepared by Marriott, Allen & Hall, Arch., 420 Hayden-Clinton Bank Bldg., Columbus, for the construction of a two-story high school. The estimated cost is $150,000. O. C. Briggs is Clk., Bd. of Education.

+Minerva, Ohio—WILLIAM BROS., Bellevue, has been awarded the general contract for the construction of a two-story, 90x120-ft. fireproof high school. The estimated cost is $60,000. Andrew Dietrich is Clk., Bd. of Education. Noted May 20.

STATE HIGHWAY, PIERCE COUNTY, WASH.

Bids were received June 1 by the State Highway Commissioner, Olympia, Wash., for the construction of a section of the National Park Highway in Mashell Cañon, Pierce County, from: (A) Charles Daley & Co., Seattle; (B) Booker, Kiehl & Wipple, Seattle; (C) Henry Styles, Tacoma; (D) Rajotte, Tobert & Winters, Seattle; (E) Torger Peterson, Eatonville; (F) Standifer Clarkson Co., Portland, Ore.; (G) N. A. Degerstrom & Co., Ballard Station, Seattle; (H) S. Normile, Seattle; (I) KENDLER & EPPLER, Eatonville (awarded contract); (J) C. L. Morris Construction Co., Seattle; (K) W. P. Zindorf, Seattle; (L) Allred & James, Centralia; (M) Sloane Bros.; (N) Atlas Construction Co., Everett; (O) D. V. McDonald & Co., Seattle; (P) Nettleton, Bruce & Eschbach Co., Seattle; (Q) Charles N. & Earle Maxham, Tacoma. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	P	Q
56,100 cu.yd. excavation, including haul of 400 ft.	$0.27	$0.40	$0.40	$0.36	$0.35	$0.33	$0.45	$0.28	$0.25	$0.324	$0.32	$0.345	$0.47	$0.38	$0.40	$0.30	$0.27
50,000 cu.yd. overhaul on above material, per each 100 ft.	0.01	0.015	0.015	0.02	0.005	0.01	0.015	0.01	0.015	0.01	0.015	0.05	0.015	0.01	0.01	0.01	0.01
10 acres clearing	100.00	100.00	90.00	200.00	150.00	135.00	100.00	50.00	100.00	100.00	127.00	150.00	100.00	75.00	100.00	115.00	140.00
4 acres grubbing	125.00	150.00	100.00	150.00	100.00	165.00	125.00	75.00	150.00	85.00	127.00	175.00	100.00	100.00	75.00	100.00	140.00
Riprap, hand placed, per cu.yd.	3.00	3.50	3.00	2.50	2.50	1.85	1.50	3.00	2.00	1.50	3.00	8.00	3.00	1.25	.....	2.50	3.50
Concrete, 1st class, per cu. yd.	14.00	14.00	11.00	11.50	10.00	9.00	12.00	16.00	15.00	7.25	15.00	25.00	17.00	7.50	.....	16.00	13.00
Concrete, 2d class, per cu.yd.	12.00	13.00	10.00	9.50	8.00	8.50	11.00	14.00	12.00	6.65	11.00	18.00	16.00	10.00	.....	14.00	12.00
Guard rail in place, including spikes and bolts per lin.ft.	0.50	0.50	0.25	1.00	0.20	0.10	0.25	0.40	0.025	0.12	0.35	0.25	0.30	0.12	.....	0.18	0.25
Timber and plank in place, including spikes and bolts, per M. ft. b.m.	18.00	25.00	25.00	30.00	20.00	18.50	24.00	20.00	25.00	25.00	25.00	25.00	30.00	15.00	.....	24.00	25.00
Logs for cribbing in place, per lin.ft.	0.25	0.40	0.25	0.10	0.10	0.14	0.25	0.35	0.25	0.50	0.00	0.25	0.30	0.12	....	0.27	0.20
6-in. porous tile drains in place, per lin.ft.	0.60	0.35	0.25	0.25	0.20	0.35	0.35	0.50	0.40	0.23	0.50	0.25	0.40	0.40	.....	0.25	0.20
8-in. porous tile drains in place, per lin.ft.	0.80	0.50	0.35	0.35	0.35	0.50	0.40	0.70	0.60	0.31	0.60	0.35	0.50	0.60	....	0.40	0.25
12-in. plain concrete pipe in place, per lin.ft.	1.50	1.00	0.80	1.50	1.00	1.50	1.00	1.00	2.50	0.74	1.00	2.50	1.10	1.00	0.50	1.00	0.60
18-in. plain concrete pipe in place, per lin.ft.	2.50	2.00	1.50	2.00	1.25	2.00	2.00	1.75	4.00	1.29	2.50	3.50	2.25	1.50	....	1.50	1 25
18-in. reinforced - concrete pipe in place, per lin.ft.	3.25	2.25	2.50	2.75	3.00	3.00	2.50	2.50	4.50	1.56	3.00	4.00	3.25	2.50	....	2.00	1 50
30-in. reinforced - concrete pipe in place, per lin.ft.	4.50	4.50	3.50	4.50	4.00	4.00	5.50	4.00	5.50	3.98	3.50	5.00	5.00	2.75	.....	4.65	2 75
36-in. reinforced - concrete pipe in place, per lin.ft.	5.50	6.00	4.75	5.25	6.00	5.00	6.00	5.00	6.00	5.76	5.00	7.00	6.00	3.00	....	6.75	3.75
42-in. reinforced - concrete pipe in place, per lin.ft.	6.50	7.50	5.00	8.50	8.00	6.00	8.50	7.00	6.50	7.95	12.00	8.50	7.00	4.00	7.00	7.85	6.60
Extended totals	$17,917	$25,525	$25,008	$24,706	$22,555	$21,758	$28,300	$17,708	$17,355	$20,784	$21,530	$25,174	$29,238	$23,458	$24,835	$19,639	$18,195

MAPLEWOOD SEWER, NO. 1—ST. LOUIS, MO.

+Bids were received June 9 for the construction of the Maplewood Sewer, No. 1, as follows: (A) COONEY CONSTRUCTION CO. (awarded contract); (B) N. B. Watters & Son; (C) Century Construction Co.; (D) Kamp-Lewald Engineering Co.; (E) John F. McMahon; (F) Strubel Helmich; (G) E. C. Davis; (H) Thomas Connor & Son; (I) Feuln-Colnon Contracting Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
270 cu.yd. class "A" Excavation in open cut	$1.75	$0.50	$5.00	$4.00	$2.50	$2.50	$2.50	$4.10	$3.00
6620 cu.yd. class "A" excavation in tunnel	6.57	5.47	7.10	8.50	8.00	7.90	10.25	11.50	12.00
1630 cu.yd. class "B" excavation in open cut	0.50	0.40	0.90	0.75	0.70	0.60	0.90	2.60	0.80
5 cu.yd. class "B" excavation in tunnel	8.00	50.00	25.00	8.50	4.00	15.00	18.00	27.60	5.00
260 cu.yd. common brick masonry in open cut	7.00	8.00	9.00	9.00	8.00	9.00	9.50	12.00	8.00
30 cu.yd. common brick masonry in tunnel	10.00	15.00	10.00	20.00	14.00	13.00	12.00	19.50	13.00
90 cu.yd. vitrified brick masonry in open cut	8.00	8.00	10.00	10.00	12.00	10.00	11.00	16.00	10.00
5 cu.yd. vitrified brick masonry in tunnel	11.00	12.00	12.00	30.00	14.00	15.00	13.50	21.00	16.00
10 cu.yd. class "A" concrete in open cut	6.50	7.50	8.00	10.50	8.00	7.50	10.00	9.00	8.00
470 cu.yd. class "A" concrete in tunnel	7.50	7.50	9.00	10.50	12.00	8.50	16.00	18.75	9.00
5 cu.yd. class "B" concrete in open cut	6.00	7.00	7.00	10.50	7.00	5.00	10.00	8.50	6.50
120 lin.ft. 12-in. vitrified clay pipe	0.25	0.30	0.25	0.50	0.30	0.75	0.40	1.60	0.35
193 lin.ft. 30-in. vitrified clay pipe	1.85	2.00	1.00	3.00	2.25	2.00	2.25	3.75	2.00
10 6-in. slants	0.25	0.40	0.30	0.50	0.60	0.50	1.00	1.75	1.00
10 12-in. slants	0.35	0.80	.....	1.00	1.00	1.00	1.50	2.25	1.00
7 12-in. elbows (¼ curves)	0.35	1.00	0.60	1.00	1.00	1.50	1.50	2.50	1.00
2 12-in. "T" Junctions on 12-in. pipe	0.90	1.00	0.50	1.25	1.25	3.00	2.50	2.75	1.00
1 12-in. "T" Junctions on 15-in. pipe	1.50	1.00	0.75	1.60	1.60	3.00	3.00	3.25	1.50
1 12-in. "T" Junctions on 24-in. pipe	4.50	3.00	1.00	6.00	5.25	8.00	8.00	7.50	4.00
2 12-in. "T" Junctions on 30-in. pipe	7.00	8.00	8.00	7.00	10.00	11.00	12.00	12.10	7.00
1 12-in. "T" Junctions on 33-in. pipe	10.00	10.00	9.00	8.00	15.00	12.00	20.00	15.00	10.00
6-in. "Y" Junctions on 30-in. pipe	7.00	2.00	8.00	7.00	9.00	9.00	12.00	9.75	8.00
3430 lb. cast iron	0.02	0.02	0.03	0.04	0.03	0.04	0.05	0.09	0.03
1090 lb. wrought iron	0.035	0.04	0.04	0.05	0.05	0.04	0.10	0.08	0.05
100 sq.ft. inlet stone	0.25	0.30	0.50	0.50	0.40	0.20	0.50	1.50	0.50
200 lin.ft. extra drilling in tunnel	0.01	0.20	0.50	1.00	0.10	0.25	0.50	0.50	0.60
Extended totals	$51,938	$44,860	$58,491	$68,874	$65,010	$62,683	$82,724	$97,541	$90,237

✚**Toledo, Ohio**—The Board of Education has awarded the general contract for the construction of additions and alterations to the Chase School at Chase and Bassett St. and the Wayne School at Wayne and Ralph St. to the WALLS, BOCK & KUHLMAN CO., Toledo, at $103,000. Noted May 27.

West Alexandrin, Ohio—Plans have been prepared by Edward J. Mounstephen, Arch., 802 United Brethren Bldg., Dayton, for the construction of a two-story school for Lanier Township. The estimated cost is $50,000.

Muncie, Ind.—Plans prepared by Charles Honuck, Arch., have been approved by the State Board of Charities and Corrections for the construction of an infirmary building for Delaware County. The estimated cost is $45,000. Noted June 24.

Vincennes, Ind.—John T. Oliphant will construct an eight-story office building. The estimated cost is $75,000.

✚**Detroit, Mich.**—The contract for the structural steel work of the superstructure of the main library to be constructed at Woodward, Cass, Putnam and Kirby Ave. has been been awarded to the AMERICAN BRIDGE CO., 30 Church St., New York, N. Y. Estimated cost, $1,000,000. Noted May 6.

✚**Grand Rapids, Mich.**—The HAUSER-OWEN-AMES CO., Grand Rapids, at $66,030, has been awarded the contract for the construction of a four-story building for the Michigan Soldiers' Home.

✚**Hastings, Mich.**—The contract for the construction of a high school has been awarded to THOMAS R. CROCKETT, Allegan, at $67,324. Noted June 10.

Chicago, Ill.—Plans are being prepared by William L. Klewer & Son, Arch., 64 West Randolph St., for the construction of a four-story theater and office building for Albert Fuchs, 823 Sheridan Rd. The estimated cost is $350,000.

✚**Chicago, Ill.**—The general contract for the construction of a five-story, 75x99-ft. brick department store at [illegible] Broadway, for Albert E. Cook, has been awarded to D[illegible]ING & EITEL, 128 North Fifth St., Chicago. The estimated cost is $200,000.

Chicago, Ill.—Price & McLanahan, Arch., 16th and Walnut St., Philadelphia, Penn., is preparing plans for the construction of a four-story, 400x800-ft. freight station for the Pennsylvania R.R. Alex C. Shand, Philadelphia, is Ch. Engr.

Jacksonville, Ill.—Bids will be received about June 5 for the construction of a two-story addition to Norbury Sanitarium. Estimated cost, $40,000. C. W. Buckingham, Morrison Blk., is Arch.

Superior, Wis.—Bids are being received by the Building Committee and E. M. Ulrich, Arch., 1900 Euclid Ave., Cleveland, Ohio, for the construction of an orphanage for the Catholic Diocese. Estimated cost, $100,000. Noted Apr. 15.

Ames, Iowa—W. D. Lewis & Co., Ames, at $78,499, submitted the lowest bid for the construction of a four-story hotel for the Ames Improvement Co.

Fontanelle, Iowa—L. D. Willis, Arch., 1119 City National Bank Bldg., Omaha, Neb., is preparing plans for the construction of a two-story, 70x94-ft. school. The estimated cost is $40,000. E. D. Barnhill is Pres., Bd. of Education.

Minneapolis, Minn.—The Gamble-Robinson Commission Co., 222 North Sixth St., will construct a six- or eight-story fruit and produce trade building. The estimated cost is $100,000.

St. Cloud, Minn.—Plans are being prepared by Tyrie, Chapman & Gage, 320 Auditorium Bldg., Minneapolis, for the construction of a high school. The estimated cost is $150,000.

St. Paul, Minn.—(Official)—Bids will be received about Sept. 15 for the construction of a building at Cedar and Central St. for the Minnesota State Historical Society. C. H. Johnston, Capitol Bank Bldg., is State Arch. Noted Apr. 29 and June 24.

BANK ST. BRIDGE, WATERBURY, CONN.

✚Bids were received June 1 by the Board of Public Works, Waterbury, for the construction of a reinforced-concrete bridge over the Naugatuck River from: (A) Barbara D'Aurio; (B) C. A. Sibley, New Haven; (C) O'Brien Construction Co., 18 East 41st St., New York; (D) McHarg-Barton Co., 171 Madison Ave., New York; (E) Fred T. Ley & Co., Inc., Springfield, Mass.; (F) Robert Daley Co., New Haven; (G) Barzaghi-Vought Co., Inc., 299 Madison Ave., New York; (H) HUDSON RIVER CO., 149 Broadway, New York (awarded contract). The item bids were as follows:

	A	B	C	D	E	F	G	H
2067 cu.yd. excavation bridge abutments and piers to elevation 110	$1.50	$1.45	$1.00	$2.00	$1.50	$0.50	$1.25	$1.10
1422 cu.yd. excavation bridge abutments and piers below elevation 110	2.00	6.00	3.00	6.00	3.00	0.50	3.00	2.50
1540 cu.yd. concrete masonry, 1-3-6	8.00	6.80	7.50	6.00	7.00	8.00	5.00	7.30
428 cu.yd. concrete masonry, 1-2½-5	12.00	9.60	8.00	7.25	7.00	10.00	6.00	8.30
908 cu.yd. concrete masonry, 1-2-4	16.00	18.50	13.75	9.75	12.00	10.00	12.00	9.20
60 cu.yd. concrete masonry, 1-2-4, 1-in. stone	20.00	24.00	13.75	8.50	15.00	25.00	12.50	9.50
Parapet walls, molding and curbing, lump sum	10,100.00	9,655.00	11,000.00	9,000.00	9,600.00	7,000.00	9,025.00	9,055.05
70 cu.yds. pier ends and coping	59.00	60.00	72.00	60.00	65.00	3,950.00	60.00	61.50
113 tons 1-in. steel reinforcement	100.00	80.00	100.00	50.00	56.00	80.00	45.00	50.00
20.5 tons ¾-in. steel reinforcement	100.00	90.00	100.00	50.00	56.00	75.00	48.00	50.00
8 tons ½-in. steel reinforcement	100.00	100.00	100.00	60.00	66.00	80.00	50.00	50.00
890 sq.yd. wire mesh reinforcement	0.45	0.75	0.50	0.50	0.50	0.35	0.40	0.46
350 sq.yd. brick sidewalk	3.50	2.50	2.50	3.00	1.85	1.00	1.50	2.05
Iron conduit and boxes, (lump sum)	300.00	175.00	200.00	125.00	125.00	100.00	500.00	125.00
40M ft. b.m. wood sheet piling	50.00	60.00	60.00	67.00	60.00	55.00	70.00	50.00
12M ft. b.m. timber grillages	50.00	48.00	50.00	38.00	60.00	50.00	50.00	45.00
670 lin.ft. 6-in. drain tile	1.00	0.75	0.50	0.25	0.40	0.20	0.25	0.30
Construction and removal of temporary bridge, (lump sum)	6500.00	3650.00	3000.00	5000.00	3650.00	6600.00	3500.00	3105.00
6000 lin.ft. timber piling, 12 to 20 ft. long	0.50	0.40	0.75	0.25	0.30	0.20	0.25	0.25
6000 lin.ft. timber piling, 20 to 30 ft. long	0.50	0.40	0.75	0.25	0.30	0.20	0.25	0.25
980 cu.ft. excavation, retaining wall	2.00	1.50	1.00	2.50	2.30	0.50	1.50	0.35
475 cu.yd. rubble masonry	7.00	6.00	5.50	4.00	3.60	5.00	4.00	2.55
Extended totals	$91,574	$87,159	$84,559	$71,598	$70,455	$66,091	$62,870	$61,337

PARK AVE. BRIDGE—CINCINNATI, OHIO

Bids were received June 1 by the Board of Public Service, Cincinnati, for the construction of a reinforced-concrete arch over Kemper Lane at the Park Ave. entrance to Eden Park, from: (A) D. P. Foley; (B) A. J. Yawger, Indianapolis, Ind.; (C) Ohio Valley Contracting Co.; (D) Roos Bros.; (E) Cleary-White Construction Co. and A. J. Brehm; (F) N. R. Porterfield, Youngstown; (G) F. W. Folz & Co.; (H) William F. Nickoson; (I) Ferro-Concrete Construction Co.; (J) Runck Bros.; (K) James Duff Construction Co., Cleveland; (L) L. Eid Concrete Steel Co.; (M) Kirchner Construction Co.; (N) Thomas P. Strack; (O) Engineer's Estimate. All bidders of Cincinnati unless otherwise stated. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
7000 cu.yd. trench excavation, earth	$0.75	$0.75	$1.25	$1.50	$0.75	$1.25	$1.00	$2.00	$1.00	$2.00	$1.00	$1.35	$1.50	$1.00	$1.00
2000 cu.yd. trench excavation, rock	1.00	2.00	2.50	2.25	3.00	1.75	1.50	3.00	2.50	3.00	2.50	2.00	3.00	2.50	2.50
3600 cu.yd. reinforced-concrete footings and abutments	9.10	9.25	8.00	9.00	9.00	11.10	8.60	12.00	9.84	10.00	10.45	9.40	10.00	12.00	9.00
650 cu.yd. reinforced-concrete retaining walls	12.00	14.20	14.60	17.00	15.00	14.00	14.50	15.00	13.00	16.00	16.00	17.10	18.20	18.00	15.00
100 cu.yd. reinforced-concrete stairs	20.00	20.00	18.00	25.00	23.00	25.00	27.50	25.00	25.50	25.00	25.00	31.40	27.00	30.00	25.00
Reinforced-concrete superstructure (lump sum)	46,000	49,200	50,000	48,000	59,250	51,000	62,600	43,730	57,850	70,800	72,364	68,430	72,500	80,000	60,950
26,000 cu.yd. grading excavation	0.35	0.45	0.60	0.50	0.50	0.50	0.50	0.47	0.60	0.01	0.40	0.65	0.60	1.00	0.60
80 lin.ft., 18-in. drain	1.45	2.00	2.50	2.50	2.50	2.50	3.60	2.00	2.50	2.00	2.50	2.00	2.00	2.50	2.50
500 lin.ft., 12-in. drain	0.85	1.25	1.50	1.50	1.25	1.50	1.50	1.50	1.50	1.00	1.50	1.00	1.75	1.50	1.50
175 lin.ft. 6-in. drain	0.85	0.75	1.75	1.00	1.00	1.00	1.00	1.00	1.00	0.50	1.00	0.75	1.25	1.00	1.00
3 manholes	70.00	100.00	150.00	150.00	100.00	150.00	125.00	60.00	150.00	100.00	150.00	150.00	80.00	150.00	150.00
7 inlets, No. 1	40.00	50.00	125.00	75.00	50.00	75.00	50.00	40.00	75.00	60.00	75.00	75.00	50.00	75.00	75.00
4 inlets, No. 3	60.00	75.00	90.00	100.00	60.00	100.00	75.00	50.00	100.00	75.00	100.00	100.00	80.00	100.00	100.00
1600 lin.ft. granite curb	1.00	1.00	1.10	1.10	1.00	1.15	1.10	1.10	1.10	1.00	1.00	1.10	1.00	1.10	1.10
1300 lin.ft. concrete curb	0.40	0.75	0.80	0.70	0.65	0.60	0.70	0.60	0.75	0.50	0.80	0.75	0.70	0.80	0.80
150 cu.yd. concrete base for paving	3.50	5.45	6.00	5.50	5.50	5.00	5.25	5.50	5.50	5.00	6.00	6.75	5.00	6.00	6.00
300 sq.yd. concrete paving	1.00	1.25	1.50	1.50	1.50	1.25	1.50	1.25	1.50	1.50	1.50	1.50	2.50	1.50	1.50
800 sq.yd. asphaltic concrete paving	1.00	1.50	1.20	1.50	1.50	1.40	1.50	1.35	1.50	1.50	1.50	1.50	1.50	1.50	1.50
9000 sq.yd. bituminous macadam paving	1.30	1.20	1.20	1.15	1.11	1.15	1.15	1.20	1.40	1.30	1.15	1.30	1.40	1.30	1.30
1000 sq.yd. bituminous stone walks	1.15	1.20	1.30	1.15	1.16	1.10	1.05	0.50	1.40	1.30	1.30	1.30	1.15	1.30	1.30
10,000 sq.ft. cement walks	0.13½	0.12½	0.15	0.14	0.12	0.12½	0.13	0.12	0.15	0.12	0.15	0.14	0.15	0.15	0.15
480 lin.ft. 2-bar pipe railing	1.00	1.00	1.10	1.00	0.75	1.00	1.00	1.00	1.05	1.00	1.25	1.00	1.25	1.25	1.25
3000 sq.yd. sodding	0.20	0.35	0.40	0.30	0.25	0.35	0.35	0.23	0.40	0.20	0.40	0.30	0.35	0.35	0.40
Extended totals	$125,354	$136,294	$142,429	$143,875	$148,220	$149,405	$150,310	$151,635	$156,788	$160,937	$167,924	$170,219	$179,404	$200,050	$158,000

Caldwell, Kan.—Plans are being prepared by S. S. Voight, Arch., 317 Barnes Bldg., Wichita, for the construction of a two-story school. The estimated cost is $50,000.

Hiawatha, Kan.—Plans are being prepared by J. H. Felt & Co., Arch., 800 Grand Ave., Kansas City, Mo., for the construction of a two-story high school. The estimated cost is $75,000. W. F. Shale is Secy., Bd. of Education.

✚**Wichita, Kan.**—The general contract for the construction of a six-story bank and office building for the Fourth National Bank has been awarded to the SWENSON CONSTRUCTION CO., Kansas City, Mo., at $113,609.

Weeping Water, Neb.—Smithley & Campbell, Arch., 506 West Broadway, Council Bluffs, Iowa, is preparing plans for the construction of a two-story school. The estimated cost is $40,000.

Kansas City, Mo.—Bids are being received for the construction of a seven-story fireproof office building at 912 Walnut St. to be known as the Ridge Arcade. The estimated cost is $50,000. Smith, Rea & Lovitt, 602 Finance Bldg., is Arch.

Kansas City, Mo.—St. Joseph's Hospital will construct a six-story reinforced-concrete and brick hospital at 31st St. and Linwood Blvd. The estimated cost is $500,000. Wilder & Wight, First National Bank Bldg., is Arch.

Kansas City, Mo.—New bids are being received by the Board of Public Works for the construction of a two-story reinforced-concrete and brick police station at 19th St. and Baltimore Ave. The estimated cost is $75,000. Madorie & Birdsall, 832 Reserve Bank Bldg., is Arch.

Kansas City, Mo.—Bids are being received for the construction of a church at East 24th St. for St. Michaels Congregation. The estimated cost is $50,000. W. E. Brown, 1112 Tracy Ave., is Arch.

Kansas City, Mo.—Frederick H. Michaelis, Arch., is preparing plans for the construction of an 80x125-ft. reinforced concrete hotel on Central St. between 14th and 15th St. for Ernest Neuer and Edward Neuer. The estimated cost is $75,000.

St. Louis, Mo.—A. J. Francis will construct a 59-suite studio-apartment building at Waterman and De Baliviere Ave. The estimated cost is $100,000.

St. Louis, Mo.—E. Mason Roberts plans to construct two commercial and store buildings at 3872 Washington Blvd. The estimated cost is $100,000.

✚**St. Louis, Mo.**—The general contract for the construction of a six-story office building at Broadway and Locust St. for the Ranier Realty Co. has been awarded to JAMES STEWART & CO. INC., 343 South Dearborn St., Chicago, Ill. The estimated cost is $400,000. Noted Nov. 26.

Little Rock, Ark.—The Crawford-Williamson Construction Co., Memphis, Tenn., at $56,000, was the lowest bidder for the construction of a two-story school to be known as the U. M. Rose School. J. H. Bilheimer is Secy. of School Bd.

Austin, Tex.—The congregation of the Ebenezer Baptist Church will construct a building at 10th and San Marcos St. The estimated cost is $50,000. L. L. Campbell is Pastor.

Beaumont, Tex.—Plans are being prepared for the construction of a two-story brick school at South Park. The estimated cost is $50,000.

✚**Dallas, Tex.**—The general contract for the construction of a high school has been awarded to E. C. GERHARD & CO. The estimated cost is $300,000. Noted Mar. 18 and June 10.

Galveston, Tex.—Plans are being prepared by C. D. Hill & Co., Arch., for the construction of a five-story hotel for S. Skitcovitch. The estimated cost is $70,000.

(Continued on page 25)

SEWAGE SYSTEM AND SEWAGE-TREATMENT WORKS—HUNTINGTON, N. Y.

✚Bids were received May 14 by the Sewer Commissioners for the construction of a sewer system and sewage-treatment works from (A) Engineer's Estimate; (B) FRANK NORDONE, Mt. Vernon (awarded contract); (C) Fred E. Gross & Son, Yonkers; (D) Lincoln-Steele Fleming Co., New York; (E) Peter D'Amato, Newark, N. J.; (F) Murphy Bros., Brooklyn; (G) Peace Bros., Flushing; (H) Henry W. Golden & Son, Inc., Troy; (I) John C. Schrade, Inc., Brooklyn; (J) Daly & Merritt, Port Chester; (K) Frank Puglia, Paterson, N. J.; (L) North Eastern Construction Co., New York; (M) Joseph Jennings, Brooklyn; (N) Frank Merandino, Inc., Brooklyn. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
Vitrified Pipe Sewer														
4400 lin.ft. 8-in., 0 to 6 ft. deep	$0.46	$0.40	$0.46	$0.39	$0.35	$0.45	$0.46	$0.40	$0.45	$0.41	$0.70	$0.37	$0.82	$0.60
48,375 lin.ft. 8-in., 6 to 8 ft. deep	0.46	0.42	0.52	0.49	0.48	0.55	0.55	0.48	0.52	0.55	0.90	0.58	0.82	0.80
5555 lin.ft. 8-in., 8 to 10 ft. deep	0.65	0.65	0.73	0.65	0.65	0.75	0.71	0.80	0.65	0.71	1.00	1.38	0.95	0.85
2845 lin.ft. 8-in., 10 to 12 ft. deep	0.85	0.80	0.93	0.80	0.80	0.90	0.84	1.10	0.94	0.77	1.25	1.77	1.24	1.01
1040 lin.ft. 8-in., 12 to 14 ft. deep	1.05	0.95	1.22	1.07	1.05	1.15	1.01	1.35	1.07	0.85	1.90	2.22	1.39	1.35
245 lin.ft. 8-in., 14 to 16 ft. deep	1.30	1.10	2.00	1.34	1.50	1.70	1.40	1.75	1.65	0.90	2.25	2.50	1.60	1.51
50 lin.ft. 8-in., 16 to 18 ft. deep	1.60	1.50	2.60	1.60	2.25	2.50	2.00	2.40	2.40	1.25	3.00	3.37	1.80	1.81
310 lin.ft. 10-in., 6 ft. deep	0.53	0.50	0.50	0.46	0.40	0.55	0.55	0.45	0.52	0.63	0.85	0.44	0.89	0.60
7885 lin.ft. 10-in., 6 to 8 ft. deep	0.53	0.60	0.60	0.61	0.55	0.65	0.64	0.55	0.60	0.75	1.00	0.65	0.89	0.76
855 lin.ft. 10-in., 8 to 10 ft. deep	0.75	0.75	0.78	0.72	0.70	0.80	0.82	0.95	0.73	0.79	1.35	1.42	1.03	0.80
50 lin.ft. 10-in., 10 to 12 ft. deep	0.95	0.95	1.00	0.87	1.10	1.40	1.00	1.35	1.03	0.99	1.65	1.86	1.38	1.11
680 lin.ft. 12-in., 6 ft. deep	0.64	0.65	0.57	0.62	1.00	0.90	0.73	0.55	0.60	0.95	1.20	0.52	0.94	0.71
1205 lin.ft. 12-in., 6 to 8 ft. deep	0.64	0.73	0.67	0.72	1.50	1.25	0.85	0.65	0.70	1.00	1.30	0.72	0.94	0.90
120 lin.ft. 12-in., 8 to 10 ft. deep	0.85	0.85	0.85	0.78	2.00	1.50	1.00	1.30	0.87	1.10	1.60	1.52	1.08	1.01
35 lin.ft. 12-in., 10 to 12 ft. deep	1.05	1.00	1.20	0.94	3.00	2.10	1.25	1.60	1.10	1.45	1.75	1.93	1.43	1.16
75 lin.ft. 12-in., 12 to 14 ft. deep	1.35	1.09	1.60	1.20	3.25	2.25	1.40	2.00	1.25	1.50	2.00	2.16	1.51	1.41
80 lin.ft. 12-in., 14 to 16 ft. deep	1.70	1.29	2.15	1.48	3.40	2.80	1.65	2.50	1.85	1.60	2.50	2.30	1.73	1.80
50 lin.ft. 12-in., 16 to 18 ft. deep	2.00	1.50	2.70	1.74	3.65	3.00	2.00	3.00	2.50	1.90	3.00	2.45	1.72	2.00
225 lin.ft. 15-in., 0 to 6 ft. deep	1.00	0.75	0.75	1.05	1.25	2.00	0.91	1.40	1.50	1.45	1.40	0.76	1.12	0.91
730 lin.ft. 15-in., 6 to 8 ft. deep	1.10	0.94	0.90	1.15	1.60	2.50	1.10	1.94	1.75	1.53	1.80	1.92	1.25	1.21
610 lin.ft. 15-in., 8 to 10 ft. deep	1.25	1.05	1.15	1.31	2.00	2.75	1.30	2.55	2.50	1.70	2.30	1.93	1.41	1.36
50 lin.ft. 15-in., 10 to 12 ft. deep	1.50	1.15	1.75	1.46	2.50	4.50	2.00	3.60	3.00	1.90	3.00	2.14	1.71	1.56
20,000 lin.ft. 8-in., with bituminous joints	0.03	0.05	0.04	0.02	0.05	0.05	0.06	0.04	0.04	0.05	0.07	0.30	0.05	0.07
4000 lin.ft. 10-in., with bituminous joints	0.05	0.06	0.05	0.04	0.07	0.06	0.07	0.05	0.05	0.07	0.09	0.32	0.05	0.10
2000 lin.ft. 12-in., with bituminous joints	0.08	0.07	0.07	0.05	0.15	0.08	0.08	0.07	0.06	0.09	0.11	0.35	0.05	0.12
500 lin.ft. 15-in., with bituminous joints	0.15	0.08	0.10	0.06	0.20	0.10	0.13	0.08	0.08	0.11	0.14	0.40	0.08	0.15
2000 lin.ft. laying and trenching 14-in. c.i. pipe, 6 ft. deep	0.75	0.50	0.50	0.48	0.75	0.60	0.75	0.60	1.23	2.85	1.25	2.20	2.48	1.40
2500 5-in. Y-branches on 8-in. pipe	0.50	0.35	0.30	0.35	0.40	0.30	0.40	0.35	0.30	1.00	0.40	0.53	0.60	0.32
365 5-in. Y-branches on 10-in. pipe	0.69	0.45	0.40	0.48	0.60	0.35	0.55	0.50	0.40	1.10	0.75	0.77	0.85	0.45
90 5-in. Y-branches on 12-in. pipe	0.85	0.55	0.50	0.58	0.75	0.35	0.83	0.60	0.45	1.50	2.00	0.96	1.05	0.55
60 5-in. Y-branches on 15-in. pipe	1.00	0.65	0.65	0.88	1.00	0.40	1.10	1.00	0.98	1.75	2.20	1.68	1.60	0.90
2000 5-in. ⅛ bends	0.23	0.25	0.25	0.30	0.40	0.25	0.30	0.15	0.25	0.50	0.30	0.29	0.31	0.30
400 5-in. double Y branches, including caps	0.50	0.50	0.25	0.54	0.50	0.60	0.55	0.40	0.50	1.00	0.95	0.48	0.40	0.50
1500 lin.ft. 5-in. vitrified pipe risers	0.50	0.45	0.30	0.46	0.35	0.30	0.40	0.75	0.90	0.30	0.75	0.91	0.85	0.60
55 flushtanks and appurtenances	70.00	65.00	65.00	72.00	70.00	65.00	80.00	70.00	80.00	60.00	65.00	102.00	196.50	120.00
240 manholes and appurtenances	40.00	37.00	38.00	39.00	36.00	35.00	40.00	40.00	40.00	45.00	40.00	86.00	50.00	60.00
90 tons c.i. pipe	25.00	24.00	30.00	30.00	38.00	25.00	30.00	27.00	23.00	30.00	30.00	31.50	10.00	40.00
1 ton c.i. specials	60.00	59.00	60.00	75.00	60.00	60.00	75.00	60.00	60.00	75.00	75.00	87.50	10.00	80.00
10 cu.yd. rock excavation	3.00	3.00	5.00	3.00	4.00	3.00	5.00	3.00	4.75	4.00	3.00	4.80	1.00	5.00
100 cu.yd. extra earth excavation	0.60	1.00	1.00	2.00	1.00	1.00	1.00	1.00	1.00	0.75	2.00	0.90	0.65	1.00
200 cu.yd. extra earth filling	0.50	0.75	0.50	0.50	0.40	0.75	1.00	1.00	0.30	0.75	0.50	0.42	0.65	1.00
20 cu.yd. extra broken stone or gravel filling	2.00	1.85	2.00	3.00	2.00	2.00	2.00	1.50	1.00	2.75	3.00	1.20	2.00	2.50
20 cu.yd. concrete for sewerage system	10.00	6.00	8.00	7.00	7.00	10.00	7.00	6.50	12.00	9.00	7.00	8.00	7.00	8.00
1000 ft. b.m. lumber for foundations	32.00	35.00	50.00	60.00	40.00	35.00	40.00	30.00	45.00	35.00	65.00	75.00	35.00	40.00
500 lin.ft. piles	0.50	0.60	0.50	0.75	0.50	0.50	0.40	0.30	0.50	0.50	0.80	1.00	0.35	0.70
10,000 ft. b.m. sheathing left in place	32.00	31.00	35.00	35.00	38.00	28.00	35.00	30.00	30.00	35.00	45.00	36.00	27.00	35.00
250 sq.yd. relaying of cement walks	1.35	1.80	1.80	1.80	1.35	1.35	1.50	1.00	1.50	1.50	1.50	1.75	1.35	1.80
20 sq.yd. relaying of wood block pavement with concrete base	3.50	1.90	2.00	3.00	2.00	3.50	2.00	3.00	5.00	3.50	3.00	3.42	3.50	5.00
900 sq.yd. relaying flag stone walk	0.20	0.15	0.50	0.60	0.27	0.35	0.50	0.25	1.00	0.50	0.10	0.90	0.75	1.50
4000 sq.yd. relaying bituminous macadam pavement	0.60	1.60	0.30	0.70	0.45	1.20	0.75	1.60	0.75	1.00	0.75	1.08	0.40	2.00
2000 lin.ft. 1-in. galvanized iron pipe line	0.25	0.18	0.25	0.15	0.25	0.25	0.35	0.20	0.29	0.20	0.40	0.49	0.50	0.16
Settling tank and appurtenances (lump sum)	5100.00	5044.00	6000.00	7327.00	8500.00	5700.00	8076.00	6794.27	8090.00	9000.00	5510.00	4570.00	8500.00	29,500
Storage tank and appurtenances (lump sum)	2500.00	2480.00	1635.00	3475.00	5500.00	1200.00	3000.00	3689.05	6000.00	6800.00	2331.00	2380.00	3500.00	7500.00
Building, sterilizing devices and appurtenances (lump sum)	2200.00	2720.00	2000.00	2498.00	2500.00	2700.00	2900.00	3040.35	5000.00	3000.00	2310.00	2270.00	5000.00	9000.00
Sludge drying bed and appurtenances (lump sum)	300.00	1500.00	1500.00	254.00	360.00	800.00	250.00	975.55	2000.00	2300.00	246.00	82.00	8000.00	4000.00
Extended totals	$76,339	$77,948	$79,302	$81,523	$86,530	$36,758	$88,994	$89,078	$94,788	$104,101	$114,466	$119,783	$130,271	$155,675

WATER-WORKS IMPROVEMENT—SOUTH PHILADELPHIA, PENN.

Bids were received May 25 by the Bureau of Water, Department of Public Works, Philadelphia, for Contract No. 260, furnishing and laying cast-iron water pipe in South Philadelphia, from: (A) Beaver Engineering & Contracting Co., 51 Chambers St., New York; (B) Cunningham Paving & Contracting Co., 1345 Arch St.; (C) M. & J. B. McHugh, 714 Commercial Trust Bldg.; (D) Snare & Triest Co., Pier 40, South Wharves; (E) Keystone State Construction Co., 704 Pennsylvania Bldg.; (F) Edwin H. Vare, 712 Lincoln Bldg.; (G) Peoples Bros., Inc., 237 Commercial Trust Bldg.; (H) Charles P. Bower, Wayne & Roberts Ave.; (I) Degnon Contracting Co., 30 East 42nd St., New York; (J) American Paving & Construction Co., 211 South Ninth St. All bidders of Philadelphia unless otherwise noted. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
55,000 cu.yd. earth excavation not more than 10 ft. deep	$0.99	$1.50	$1.60	$1.10	$1.05	$0.85	$0.95	$1.17	$1.25	$1.65
1000 cu.yd. earth excavation more than 10 ft. deep	1.54	1.80	1.60	1.50	1.60	1.95	0.95	2.00	1.25	1.97
1500 cu.yd. rock excavation not more than 10 ft. deep	2.20	1.50	2.50	2.20	2.50	1.33	1.50	2.50	1.25	2.50
500 cu.yd. rock excavation more than 10 ft. deep	2.20	3.00	4.00	3.00	4.00	1.95	1.50	3.50	1.25	2.50
7200 tons 48x36x30-in. c.i. hub and spigot pipe	30.80	32.00	29.68	28.00	29.60	28.00	28.40	28.75	34.00	27.22
1700 tons 24-in. and smaller c.i. hub and spigot pipe	33.40	36.00	29.97	29.00	31.50	28.00	28.40	30.86	34.00	28.60
200 tons 48x36x30-in. c.i. specials	70.00	78.00	83.00	70.00	80.00	82.40	118.00	79.50	80.00	62.75
50 tons 24-in. and smaller c.i. specials	79.20	87.00	97.00	72.00	77.00	88.00	118.50	84.35	80.00	62.75
8 26-in. stop valves	486.75	525.00	550.00	540.00	470.00	498.00	415.00	460.00	720.00	430.00
2 30-in. stop valves	366.85	380.00	341.00	340.00	360.00	350.00	305.00	300.00	500.00	325.00
5 24-in. stop valves	209.00	225.00	210.00	200.00	230.00	210.00	190.00	179.00	275.00	200.00
10 20-in. stop valves	109.85	135.00	150.00	130.00	150.00	122.00	132.00	135.00	220.00	120.00
20 16-in. stop valves	74.65	87.00	100.00	75.00	110.00	81.00	75.00	74.00	90.00	90.00
15 12-in. stop valves	36.90	45.00	48.00	40.00	60.00	39.00	47.00	37.75	54.00	48.00
10 10-in. stop valves	27.95	33.00	33.00	30.00	50.00	29.50	37.00	29.25	32.00	40.50
15 8-in. stop valves	21.45	24.00	22.00	25.00	45.00	22.00	29.00	20.00	20.00	40.00
25 6-in. stop valves	14.00	17.00	13.50	16.00	40.00	15.50	21.00	14.12	15.00	35.00
15 2½-in. air valves	11.00	10.00	10.00	12.00	14.00	15.65	10.00	10.50	15.00	20.00
35,000 lb. gray iron castings	0.02	0.05	0.04	0.03	0.05	0.03½	0.05	0.02½	0.03½	0.04
10,000 lb. w.i. and steel fixtures	0.05	0.05	0.10	0.05	0.10	0.10	0.08	0.06	0.06	0.06
5000 lb. structural steel	0.04½	0.05	0.04	0.03	0.05	0.04	0.05	0.05	0.05	0.05
1500 cu.yd. concrete masonry	6.00	7.25	8.00	7.50	7.00	6.50	5.50	6.00	0.01	6.00
2000 cu.yd. brick masonry	11.00	12.00	16.00	10.60	12.00	11.50	12.00	12.00	0.01	15.00
27,000 sq.yd. granite block paving	0.60	0.40	0.36	0.30	0.40	0.40	0.60	0.35	0.01	0.60
6000 sq.yd. asphalt paving	2.20	1.25	1.40	1.10	1.50	1.40	1.50	1.40	0.01	1.25
2000 sq.yd. vitrified brick paving	2.20	0.60	0.70	1.50	1.90	0.75	1.50	1.30	0.01	1.25
1200 sq.yd. wood block paving	3.85	4.00	3.00	3.30	1.90	1.60	3.50	2.25	0.01	3.65
1000 lin.ft. resetting curb	0.05	0.20	0.40	0.20	0.25	0.20	0.25	0.12	0.09	0.20
1000 sq.ft. resetting flag stones	0.05	0.05	0.20	0.10	0.10	0.06½	0.12	0.08	0.05	0.10
100 sq.yd. granolithic sidewalk paving	1.50	1.25	1.75	1.50	1.50	1.60	1.80	1.10	1.25	1.50
100 sq.yd. brick sidewalk paving	1.50	1.00	0.75	0.60	1.00	0.65	0.60	1.00	1.25	1.00
10,000 lin.ft. terra cotta pipe sewer, 15-in. and under	0.55	0.60	1.10	0.45	1.00	0.96	1.00	0.50	0.10	0.90
3 M ft. b.m. timber	0.03½	0.10	60.00	0.06	0.03	0.04	50.00	0.05	0.06	0.05
2000 lb. lead pipe	0.33	0.12	0.25	0.15	0.40	0.17	0.60	0.10	0.20	0.20
Extended totals	$443,916	$478,955	$654,594	$406,855	$438,645	$399,964	$577,250	$424,381	$413,127	$450,531

SANITARY SEWER SYSTEM—SILOAM SPRINGS, ARK.

Bids were received May 12 by R. J. Alfrey, Secy., Bd. of Imp., Sewer District No. 1, for the construction of a sanitary sewer system from: (A) Matthews & Forester, Kansas City, Mo.; (B) Morene, Brooks & Burkham, St. Louis, Mo.; (C) W. F. Riley Construction Co., St. Louis, Mo.; (D) John F. McMahon, St. Louis, Mo.; (E) E. J. Heckle, Kansas City, Mo.; (F) D. E. Nipp, Floro, Ill.; (G) McEachin & McEachin, McAlester, Okla.; (H) Hiram Lloyd Building & Construction Co., St. Louis, Mo.; (I) Sutherlin Construction Co., Kansas City, Mo.; (J) W. S. McDowell, Fordyce; (K) John W. Rooks, McAlester, Okla.; (L) Burke Construction Co., Ft. Smith; (M) V. E. Koch, Joplin, Mo.; (N) EVERETT & BURT, Hutchinson, Kan. (awarded contract); (O) Pouncey Paving & Construction Co., Memphis, Tenn.; (P) Edgar Main, Liberty, Mo.; (Q) John Spandri, Springfield, Mo.; (R) Bash & Janes, Joplin, Mo. The item bids were as follows:

	A	B	C	D	E	F	G	H	I
3000 lin.ft 15 in. vitrified sewer pipe	$0.58	$0.40	$0.50	$0.50	$0.56	$0.50	$0.50	$0.45	$0.55
4100 lin.ft. 12 in. vitrified sewer pipe	0.39	0.30	0.35	0.35	0.40	0.39	0.34	0.34	0.36
5500 lin.ft. 10 in. vitrified sewer pipe	0.28	0.25	0.30	0.30	0.30	0.28	0.23	0.26	2.35
26900 lin.ft. 8 in. vitrified sewer pipe	0.22	0.16	0.22	0.20	0.23	0.21	0.18	0.18	0.19
16800 lin.ft. 6 in. vitrified sewer pipe	0.15	0.10	0.18	0.15	0.18	0.14	0.13	0.12	0.15
900 6 in. on 8 in. Y's	0.48	0.30	0.40	0.40	0.85	0.90	0.30	0.34	0.69
500 6 in. on 6 in. Y's	0.36	0.20	0.30	0.30	0.69	0.65	0.20	0.24	0.45
264 lin.ft. 10 in. c.i. pipe	1.02	1.00	1.50	2.00	1.00	0.95	1.00	1.30	0.85
72 lin.ft. 8 in. c.i. pipe	0.78	p.80	1.25	1.50	0.80	0.80	0.90	1.00	0.80
96 lin.ft. 6 in. c.i. pipe	0.54	0.60	1.00	0.90	0.60	0.55	0.75	0.75	0.70
12800 lin.ft. 0 to 4 ft. trench	0.18	0.23	0.18	0.15	0.08	0.12	0.13	0.13	0.11
29100 lin.ft. 4 to 6 ft. trench	0.30	0.37	0.22	0.25	0.15	0.16	0.20	0.20	0.14
7500 lin.ft. 6 to 8 ft. trench	0.42	0.52	0.30	0.35	0.20	0.30	0.31	0.29	0.21
1800 lin.ft. 8 to 10 ft. trench	0.60	0.67	0.45	0.50	0.26	0.35	0.40	0.34	0.28
200 lin.ft. 10 to 12 ft. trench	0.72	1.22	0.60	0.80	0.40	0.40	0.49	0.54	0.45
200 lin.ft. 12 to 14 ft. trench	0.90	1.50	0.80	0.90	0.60	0.55	0.75	0.64	0.75
100 lin.ft. 14 to 16 ft. trench	1.20	2.22	1.00	1.00	0.75	0.80	1.00	0.74	0.95
136 building standard manholes	28.50	35.00	30.00	30.00	28.00	24.00	25.00	27.00	28.30
120 lin.ft. building add. depth of manhole	4.80	5.00	3.00	3.00	2.50	3.00	3.00	3.50	4.00
12 building flush tanks	57.60	75.00	60.00	70.00	50.00	85.00	57.50	65.00	62.50
40 building lampholes	5.40	2.00	7.00	10.00	8.00	9.00	8.00	7.00	7.00
25 cu.yd. extra concrete	9.60	8.00	8.00	9.00	9.00	6.00	8.00	7.00	8.00
3000 cu.yd. excavating rock in trench	2.40	3.00	4.00	3.50	2.80	3.00	2.40	2.50	2.70
1 building disposal plant complete (lump sum)	9000.00	10,000.00	9000.00	8000.00	9200.00	7209.00	9350.00	12,500.00	9150.00
1 M ft. sheeting left in trench	18.00	30.00	25.00	22.00	12.00	18.00	30.00	30.00	39.00
100 cu.yd. placing earth in embankment	0.42	0.50	0.40	0.25	0.75	0.50	0.30	0.50	0.45
Extended total	$53,793.00	$58,941.00	$55,695.00	$53,429.00	$48,682.00	$46,909.00	$46,212.00	$50,033.00	$46,010.00

	J	K	L	M	N	O	P	Q	R
3000 lin.ft. 15 in. vitrified sewer pipe	$0.58	$0.42	$0.55	$0.45	$0.50	$0.50	$0.48	$0.50	$0.47
4100 lin.ft. 12 in. vitrified sewer pipe	0.39	0.29	0.41	0.29	0.32	0.35	0.35	0.40	0.34
5500 lin.ft. 10. in. vitrified sewer pipe	0.29	0.20	0.25½	0.19	0.24	0.28	0.25	0.36	0.26
26900 lin.ft. 8 in. vitrified sewer pipe	0.22	0.16	0.22	0.16	0.18	0.16	0.20	0.18	0.20
16800 lin.ft. 6 in. vitrified sewer pipe	0.17	0.11	0.19	0.11	0.12	0.12	0.12	0.12	0.13
900 6 in. on 8 in. Y's	0.65	0.59	0.75	0.60	0.40	0.30	0.50	0.70	0.55
500 6 in. on 6 in. Y's	0.46	0.35	0.45	0.50	0.30	0.25	0.25	0.46	0.35
264 lin.ft. 10 in. c.i. pipe	0.25	0.94	1.50	1.00	1.25	2.00	1.25	1.30	1.20
72 lin.ft. 8 in. c.i. pipe	1.00	0.68	1.00	1.00	1.00	1.50	1.00	1.00	0.90
96 lin.ft. 6 in. c.i. pipe	0.65	0.55	1.00	1.00	0.75	0.90	0.75	0.75	0.60
12800 lin.ft. 0 to 4 ft. trench	0.14	0.18	0.19	0.18	0.10	0.16	0.14	0.25	0.13
29100 lin.ft. 4 to 6 ft. trench	0.17	0.24	0.27	0.25	0.15	0.17	0.20	0.35	0.17
7500 lin.ft. 6 to 8 ft. trench	0.20	0.31	0.45	0.42	0.20	0.25	0.28	0.50	0.20
1800 lin.ft. 8 to 10 ft. trench	0.30	0.52	0.84	0.60	0.35	0.40	0.45	0.60	0.30
200 lin.ft. 10 to 12 ft. trench	0.40	0.80	1.50	1.00	0.50	0.60	0.64	0.75	0.65
200 lin.ft. 12 to 14 ft. trench	0.65	0.98	2.00	1.10	0.75	0.80	0.82	0.90	0.87
100 lin.ft. 14 to 16 ft. trench	1.00	1.45	3.00	1.25	1.00	1.00	0.98	0.95	1.06
136 building standard manhole	24.00	24.00	27.50	23.00	22.00	26.50	25.00	19.00	30.06
120 lin.ft. buikding add. depth of manhole	3.00	2.50	4.00	2.00	2.50	3.00	2.00	3.50	3.00
12 building flush tanks	55.00	65.00	60.00	51.00	60.00	50.00	55.00	50.00	65.00
40 building lampholes	6.50	7.00	7.50	7.00	10.00	5.00	6.00	6.00	7.00
25 cu.yd. extra concrete	9.00	10.00	10.00	17.00	10.00	12.00	8.00	6.00	7.00
3000 cu.yd. excavating rock in trench	2.50	3.00	2.70	2.75	3.00	3.00	2.90	4.00	2.25
1 building disposal plant complete (lump sum)	8650.00	9661.31	9334.00	6700.00	8000.00	7650.00	7985.00	9140.00	9200.00
1 M ft. sheeting left in trench	20.00	22.00	25.00	25.00	20.00	20.00	15.00	20.00	12.00
100 cu.yd. placing earth in embankment	0.50	0.25	0.50	1.00	0.30	0.30	0.40	0.75	0.40
Extended total	$47,365.00	$49,339.00	$56,632.00	$47,522.00	$43,711.00	$45,496.00	$46,687.00	$60,484.00	$45,400.00

RAPID TRANSIT SYSTEM, NEW YORK, N. Y.
Station Finish, Fourth Ave. Subway

Bids were received May 28 by the Public Service Commission for the station finish of the Fourth Ave. subway, a part of the Broadway-Fourth Ave. Rapid Transit R.R., from: (A) D. C. Serber, 1123 Broadway, New York; (B) Station Construction Co., Inc., 407 45th St. Brooklyn; (C) Simon Russek, Inc., 231 Broadway, New York; (D) Charles Meads & Co., 38 Park Row, New York; (E) C. L. Dooley, Inc.; (F) Marble Arch Co., Broadway and 216th St., New York. The item bids were as follows:

	A	B	C	D	E	F
300 cu.yd. concrete	$9.00	$7.00	$13.00	$11.00	$17.00	$15.00
11 cu.yd. common brick masonry	15.00	27.00	15.00	15.00	15.00	15.00
200 cu.yd. removal of old masonry	10.00	10.00	13.00	6.00	10.00	5.00
1 cu.yd. hollow tile masonry	15.00	32.00	15.00	50.00	15.00	20.00
10 sq.yd. resurfacing concrete masonry	0.50	2.00	1.00	3.00	0.50	2.00
43,000 duct ft. tunnel ducts	0.12	0.11	0.10	0.15½	0.10	0.15
15 tons riveted steel	80.00	90.00	90.00	90.00	80.00	70.00
5 tons steel beams and shapes	80.00	75.00	80.00	80.00	80.00	70.00
5 tons steel rods and bars	80.00	60.00	60.00	80.00	65.00	70.00
100 lb. special wire forms	0.10	0.10	0.12	0.15	0.10	0.10
1075 lin.ft. hand rail	0.60	0.40	1.00	0.40	0.20	1.00
1080 sq.ft. tile, 3 ft. x 6 in., straight	0.48	0.60	0.45	0.40	0.48	0.50
45 sq.ft. tile, 2½ in. radius	1.32	1.23	1.15	2.00	1.20	1.00
4065 sq.ft. tile, 3 ft. x 9 in. and 6 ft. x 9 in., straight	0.77	0.80	0.70	0.70	0.70	0.70
25 sq.ft. tile, 2½-in. radius	1.65	1.30	1.20	3.00	1.25	1.25
30 lin.ft. tile bead, 2-in. radius	0.44	1.20	0.50	1.00	0.50	0.50
4300 sq.ft. special tile, white mosaic	0.45	0.72	0.50	0.40	0.55	0.50
1300 sq.ft. mosaic and tile bands	1.20	1.50	0.80	1.00	1.00	1.25
50 sq.ft. name tablets	1.20	1.50	1.00	2.00	1.00	1.25
1 lintel, resetting	20.00	15.00	30.00	20.00	7.00	20.00
700 sq.yd. plastering arch surface on brick and hollow tile	1.05	1.60	0.70	1.00	1.10	1.10
680 sq.yd. plastering on concrete	0.90	1.44	0.70	1.00	0.90	1.10
470 sq.yd. plastering flat surface on brick and hollow tile	0.95	1.44	0.70	1.00	1.00	0.60
45 sq.yd. plastering on concrete	0.70	1.38	0.70	1.00	0.65	0.60
3425 sq.ft. cement work, wainscot or base	0.12	0.12	0.12	0.20	0.15	0.20
175 lin. ft. cement work, cove	0.12	0.11	0.12	0.20	0.15	0.15
1450 sq.ft. cement work, floor finish	0.16	0.15	0.15	0.20	0.15	0.15
25 lin.ft. concrete stairs, self-supporting	0.85	1.60	1.20	3.00	1.50	2.00
10 sq.ft. concrete landings, self-supporting	0.50	0.65	0.60	2.00	0.55	1.00
30 sq.ft. non-slip treads	1.00	0.75	1.00	2.00	1.00	1.00
100 lin.ft. cement in side of stairs	0.12	0.12	0.40	0.50	0.50	0.30
2000 sq.ft. replacing non-slip treads	0.70	0.70	0.80	1.50	1.00	1.00
2 ticket booths, type "P"	750.00	800.00	740.00	650.00	790.00	750.00
8 ticket booths, type "Q"	750.00	800.00	750.00	650.00	790.00	750.00
3 doors, type "D"	73.00	81.00	85.00	80.00	95.00	90.00
3 doors, type "M"	73.00	65.00	65.00	70.00	12.00	70.00
3 doors, toilet stalls, single	50.00	53.00	45.00	60.00	55.00	50.00
1 resetting door	14.00	15.00	14.00	30.00	15.00	20.00
190 sq.ft. windows, double hung	2.85	2.70	2.50	2.00	2.75	3.00
75 sq.ft. windows, hinged	2.80	2.70	3.00	2.00	2.75	3.00
6 door stops	2.35	2.25	2.50	5.00	2.25	3.00
2 chains	1.25	1.80	2.00	2.00	1.75	3.00
70 lin.ft. railings, pipe	1.65	1.80	2.00	2.00	1.75	3.00
32 lin.ft. railings, guard at street	3.00	2.40	3.50	3.00	3.25	3.00
Remove existing and install new railing, lump sum	770.00	150.00	150.00	400.00	74.25	.....
48 lin.ft. low-slide gates	11.00	9.00	11.00	10.00	10.50	10.00
10 additional floor boxes	5.00	3.60	6.00	5.00	5.00	5.00
75 lin.ft. 1¼-in. galvanized w.i. pipe	1.10	0.25	1.00	0.40	1.25	0.50
10 lin.ft., 1-in. square steel tubing for ropes	1.70	0.60	1.50	0.40	1.70	1.00
10 lb. c.i. fittings	0.50	0.25	0.50	1.00	0.50	0.10
8 pair c.i. gate posts	85.00	56.00	80.00	40.00	75.00	30.00
6 additional high posts	14.00	6.00	14.00	10.00	15.00	30.00
18 lin.ft. reflectors	2.00	2.00	1.50	2.00	1.50	2.00
25 sq.ft. enam. sign plates	1.00	1.15	1.40	2.00	0.90	2.00
25 vert. in. copper letters	0.20	0.12	0.40	1.00	0.12	0.10
100 sq.ft. polished plate window glass	0.75	0.90	1.00	1.00	1.00	1.00
32 old lamps on posts	3.00	1.80	6.00	4.00	2.50	2.00
45 lin.ft. tread	2.20	2.25	3.00	2.00	2.50	5.00
30 sq.ft. steel platforms	1.10	2.25	2.00	2.00	1.40	2.50
36 ladders track to platform	6.00	11.50	10.00	10.00	7.00	20.00
40 lin.ft. oak hand rail, new	1.00	0.60	1.00	1.00	1.00	1.00
300 lin.ft. oak hand rail place, old	0.50	0.20	0.40	0.50	0.50	0.50
200 sq.ft. platform edge, safety tread	0.75	1.40	0.80	2.40	1.00	1.00
Rough plumbing (lump sum)	1320.00	700.00	900.00	763.00	1350.00	500.00
1 water closet bowl	60.00	65.00	60.00	60.00	64.00	50.00
3 lavatories	50.00	47.00	45.00	60.00	52.00	60.00
2 marine water closet bowls	110.00	125.00	110.00	100.00	118.00	75.00
10 sq.ft. soapstone partition, etc., pipe chamber partition	0.75	1.00	1.50	3.00	1.75	2.00
10 sq.ft. soapstone partition shelves	0.75	1.00	1.50	3.00	1.75	2.00
90 sq.ft. soapstone partition for stalls	0.85	1.00	1.50	2.00	1.75	2.00
100 lb. steel angles, plates, etc.	0.05	0.07	0.10	0.10	0.10	0.10
300 lin.ft. electric conduit, ¾ in.	0.30	0.21	0.30	0.30	0.29	0.20
150 lin.ft. electric conduit, 1 in.	0.40	0.28	0.40	0.40	0.40	0.20
125 lin.ft. electric conduit, ¾-in. flexible conduit	0.30	0.25	0.60	0.40	0.35	0.20
40 electric conduit, 2½-in. galvanized w.i. ferrules	0.50	0.50	0.60	0.50	1.00	1.00
30 c.i. pull boxes, 6x6x6 in.	5.50	1.50	3.00	3.00	4.50	3.00
Asbestos lumber box (lump sum)	100.00	150.00	150.00	150.00	75.00	200.00
3000 painting iron, steel, etc., letters and number	0.20	0.15	0.12	0.15	0.13	0.15
Existing steel, etc. (lump sum)	1500.00	970.00	2500.00	2230.00	2700.00	1000.00
Extended totals	$40,676	$40,694	$41,251	$42,219	$43,117	$42,199

CALIFORNIA STATE HIGHWAY
Tulare County, Division VI, Route 10, Section A

Bids were received June 1 by the State Highway Commission, Sacramento, for the construction of Division VI, Route 10, Section A, of the State Highway in Tulare County, from: (A) Taylor & Berliner, Los Angeles; (B) W. A. Dontanville, Paso Robles; (C) George S. Benson & Co., Los Angeles; (D) Engineer's Estimate. The state will furnish pipe railing for culverts, corrugated iron pipe, reinforcing steel, portland cement, sand and coarse aggregate to cost $17,592. The item bids were as follows:

	A	B	C	D
2970 cu.yd. ordinary excavation	$0.60	$0.65	$0.75	$0.60
2220 cu.yd. borrow excavation	0.70	0.80	0.90	0.60
210 lin.ft. 12-in. corrugated iron pipe	0.60	0.50	0.80	0.40
174 lin.ft. 18-in. corrugated iron pipe	0.80	0.60	1.00	0.50
11 cu.yd. cement-concrete, Class "B" (culverts and monuments)	20.00	15.00	15.00	10.00
3840 cu.yd. cement-concrete pavement	5.50	4.24	3.35	2.85
16 monuments, hauling and setting	1.00	1.00	2.00	0.50
Extended totals	$24,957	$20,378	$17,628	$16,493

WILL LABOR BE SCARCE?

Securing sufficient labor to carry on work under way promises to be one of the particular problems confronting contractors during the coming months. It is true that there was an increase in the number of third-class passengers arriving during the months of March and April, compared with February, but there was likewise an increase in the number of departures. In fact, the total net gain of aliens arriving and departing for the ten months of the current fiscal year, covering practically the war period, was only 28,000. In the year 1914 there was a net gain of 769,000; in 1913 of 815,000; and in 1912, 401,000. Immigration has fallen to such low figures that it is practically useless to make comparisons. For example, in April the arrivals were less than 25 per cent. of what they were in the corresponding month of 1914, and 18 per cent. compared with the corresponding month in 1913. In four of the nine months since the European war started, as shown by these figures, the number of departures exceeded the arrivals. Now with Italy in the fray it will mean that no more Italian labor, particularly male labor, will come to this country, and transportation from southern Europe, is so unsatisfactory that there is no inducement for the Greeks, Romanians, and Bulgarians to come to the United States, even should their governments be willing to permit them, which is a serious question. Moreover, the Italians going back to Italy are numerous, although it must be admitted that there is no such return as was noted among the French, nor the willingness to return which was manifest in the Germans. In the appended table is shown the arrivals and departures, month by month, for the years 1913 and 1914, and the first four months of the present year.

IMMIGRATION STATISTICS

	1915		1914		1913	
	Arrival	Departure	Arrival	Departure	Arrival	Decarture
January	20,684	31,556	53,150	60,218	155,235	57,035
February	18,704	14,188	56,115	34,722	71,355	30,119
March	26,335	15,107	108,922	28,777	121,241	30,957
April	31,765	17,670	142,207	50,234	175,179	45,526
May	.....	.....	120,848	51,783	164,902	62,349
June	.....	.....	85,094	78,207	198,457	58,186
July	.....	.....	72,015	54,885	154,602	62,702
August	.....	.....	44,624	34,757	156,688	37,900
Septembei	.....	.....	45,241	39,410	153,067	54,609
October	.....	.....	35,325	40,748	117,031	53,971
November	.....	.....	27,458	42,525	106,701	56,597
December	.....	.....	72,015	54,885	154,602	62,702

RAPID TRANSIT SYSTEM, NEW YORK, N. Y. SECTION 1, ROUTE 29

Bids were received June 15 by the Public Service Commission for the construction of a part of Route 29, Section 1, beginning at a point under Eastern Parkway, about 192 ft. west of the westerly building line of Nostrand Ave., curving thence southerly under Eastern Parkway and private property into Nostrand Ave. to a point about 220 ft. south of the southerly building line of Church Ave. from (A) NEWMAN & CAREY, 215 Montague St., Brooklyn, N. Y. (awarded contract); (B) Underpinning & Foundation Co., (C) D. Donegon, (D) Rodgers & Hagerty, (E) Dock Contracting Co., (F) McArthur Brs., (G) T. A. Gillespie, (H) Charles Copper, (I) E. E. Smith Contracting Co., (J) Degnan Contracting Co., (K) Frawley Kaufman Contracting Co., (L) A. McMullen, (M) Oscar Daniels, (N) J. C. Green. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
370,600 cu.yd. earth excavation above mean high water	$2.12	$1.80	$2.10	$2.85	$1.50	$2.45	$2.90	$2.91	$2.64	$2.75	$3.00	$3.25	$3.00	$4.00
33,000 cu.yd. earth excavation above and below mean high water sewers	1.17	1.80	2.10	2.85	2.50	2.45	3.00	2.81	3.00	2.75	4.00	3.25	3.00	4.00
1690 lf.ft. underpinning, buildings under 7 stories	29.00	40.00	34.00	1.00	32.00	40.00	45.00	40.00	50.00	1.00	30.00	40.00	60.00	50.00
1800 lf.ft. maintaining, protecting and securing buildings	14.50	40.00	34.00	1.00	32.00	25.00	20.00	15.00	30.00	1.00	30.00	35.00	10.00	50.00
56,200 cu.yd. concrete masonry	7.00	8.30	7.00	7.50	6.90	7.20	7.25	6.50	8.00	7.50	7.50	8.00	9.00	8.00
5640 cu.yd. protective concrete masonry	5.50	8.30	7.00	7.50	6.90	7.30	7.25	6.50	7.00	7.50	7.00	8.00	9.00	8.00
20 cu.yd. rubble stone masonry	10.00	6.50	8.00	5.00	7.00	10.00	10.00	6.50	7.00	7.50	6.00	5.00	4.00	8.00
20 cu.yd. dry rubble masonry	10.00	6.00	6.00	3.00	7.00	8.00	8.00	6.50	6.00	5.00	5.00	3.00	3.00	6.00
10 cu.yd. brick masonry	20.00	20.00	18.00	15.00	20.00	15.00	20.00	15.00	15.00	15.00	20.00	15.00	15.00	15.00
2 cu.yd. vitrified brick masonry	40.00	20.00	30.00	30.00	35.00	30.00	18.00	20.00	25.00	20.00	20.00	25.00	25.00	30.00
40 cu.yd. hollow terra cotta brick or tile masonry	15.00	25.00	15.00	15.00	15.00	15.00	18.00	15.00	15.00	15.00	25.00	15.00	15.00	15.00
1000 bbl. Portland cement grout	2.40	1.60	2.50	2.50	1.00	2.50	2.75	2.50	2.50	1.50	2.00	2.00	1.50	2.50
1000 lin.ft. timber piles in place and prepared	0.60	0.20	0.25	0.25	0.25	0.50	0.40	0.01	0.40	0.50	0.50	0.30	0.30	0.30
2 M ft. b.m. timber foundations, placed and fastened	50.00	40.00	30.00	30.00	30.00	80.00	55.00	0.01	50.00	50.00	100.00	40.00	40.00	50.00
50 cu.yd. broken stone or gravel	3.00	3.00	3.50	2.00	1.00	2.00	2.10	2.00	3.00	3.00	2.00	2.50	1.50	2.00
15,500 sq.yd. waterproofing, 1-ply	0.36	0.40	0.45	0.35	0.40	0.36	0.35	0.40	0.50	0.50	0.50	0.40	0.35	0.40
100 sq.yd. waterproofing, 2-ply	0.75	0.80	0.85	0.60	0.84	0.60	0.70	0.75	0.75	1.00	0.75	0.50	0.70	0.65
35,000 sq.yd. waterproofing, 3-ply	0.95	1.20	1.00	0.80	1.00	0.92	1.00	1.00	1.00	1.25	1.00	0.75	1.20	1.00
100 sq.yd. waterproofing, 4-ply	1.25	1.60	1.40	1.15	1.25	1.25	1.30	1.25	1.25	1.50	1.30	1.00	1.40	1.25
100 sq.yd. waterproofing, 5-ply	1.50	2.00	1.80	1.40	1.50	1.60	1.75	1.50	1.50	1.75	1.65	1.35	1.70	1.50
210 sq.yd. waterproofing, 6-ply	1.85	2.40	2.10	2.00	2.40	1.90	2.10	1.75	1.75	2.00	2.00	1.60	2.00	2.50
100 sq.yd. waterproofing, dry ply	0.20	0.35	0.40	0.35	0.15	0.30	0.25	0.45	0.50	0.30	0.40	0.20	0.35	0.30
2180 cu.yd. waterproofing, brick in asphalt mastic	23.00	20.00	23.00	20.00	22.00	25.00	23.00	25.00	17.50	18.00	20.00	22.00	25.00	25.00
50 lin.ft. drain pipe, 12 in. vitrified	0.50	1.20	1.00	0.75	2.00	0.90	0.65	1.40	1.00	0.80	1.00	1.00	1.50	0.70
50 lin.ft. drain pipe, 10 in. vitrified	0.50	1.00	1.00	0.65	1.80	0.80	0.60	1.25	0.88	0.55	0.70	0.80	1.00	0.60
50 lin.ft. drain pipe, 8 in. vitrified	0.40	0.80	0.75	0.50	1.70	0.70	0.50	1.00	0.75	0.40	0.50	0.60	0.80	0.50
50 lin.ft. drain pipe, 6 in. vitrified	0.40	0.60	0.75	0.45	1.60	0.50	0.45	0.60	0.65	0.30	0.40	0.50	0.60	0.40
50 lin.ft. drain pipe, 4 in. vitrified	0.30	0.40	0.50	0.40	1.50	0.25	0.40	0.60	0.55	0.20	0.30	0.40	0.30	0.30
50 lin.ft. drain pipe, 6 in. c.i.	1.00	2.50	1.00	1.00	3.00	1.25	0.65	1.25	2.00	1.25	1.50	1.25	1.00	1.00
50 lin.ft. drain pipe, 4 in. c.i.	0.80	1.60	0.75	0.50	2.50	1.00	0.50	1.00	1.50	1.00	1.00	1.00	0.75	0.60
200 lin.ft. drain pipe, 10 in. c.i.	1.80	3.00	2.30	2.50	2.00	1.70	1.90	3.00	4.00	2.00	2.00	2.00	2.00	1.50
100 lin.ft. 3 in. "extra heavy" c.i. pipe and fittings	0.60	1.50	0.75	1.00	0.85	1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	0.75
350 lin.ft. 4-in. "extra heavy" c.i. pipe and fittings	0.80	1.60	1.25	1.25	1.25	1.30	0.65	1.25	1.50	1.00	1.25	1.25	1.25	1.00
300 lin.ft. 6-in. "extra heavy" c.i. pipe and fittings	1.20	2.50	1.50	1.50	1.35	1.90	0.90	2.00	2.00	1.25	1.75	1.65	1.50	1.25
300 lin.ft. 8-in. "extra heavy" c.i. pipe and fittings	1.40	3.00	2.00	2.50	2.00	2.50	1.35	3.00	3.00	1.50	2.00	2.00	2.50	2.00
263,800 duct. ft. tunnel ducts in place	0.11	0.20	0.11	0.12	0.11½	0.10	0.14	0.10	0.11	0.15	0.10	0.11	0.12	0.11
56,100 duct. ft. railroad ducts in place	0.22	0.20	0.12	0.15	0.11½	0.15	0.25	0.12	0.15	0.20	0.20	0.17	0.14	0.16
2600 ton riveted steel, painted and erected	60.00	52.00	58.00	55.00	57.00	59.65	53.00	55.00	65.00	65.00	60.00	58.00	67.00	63.00
3815 ton steel beams and shapes with connections	40.75	42.00	52.00	55.00	51.00	53.30	50.00	55.00	57.50	55.00	60.00	55.00	62.60	57.00
735 ton steel rods and bars built in concrete	43.00	70.00	57.00	50.00	45.00	50.00	40.00	55.00	45.00	50.00	50.00	65.00	50.00	50.00
35 ton miscellaneous iron castings	75.00	90.00	70.00	65.00	65.00	65.00	32.00	70.00	55.00	60.00	50.00	50.00	50.00	50.00
3 ton miscellaneous iron furnishings	75.00	100.00	70.00	100.00	75.00	100.00	33.00	70.00	65.00	75.00	80.00	70.00	50.00	50.00
20 lb. special wire forms, in pace	1.00	0.25	0.25	0.10	0.25	0.10	1.00	0.12	0.50	0.25	0.30	0.50	0.50	0.10
9760 lin.ft. 1¼ seasoned oak hand rail, in place	0.30	0.30	0.45	0.26	0.28	0.40	0.45	0.30	0.30	0.50	0.50	0.35	0.50	0.50
11,750 sq.ft. steel gratings for ventilation	1.70	1.00	1.50	1.50	1.40	1.50	1.40	1.30	1.50	1.25	1.25	1.40	1.75	1.50
1500 sq.ft. vault lights, in place	1.30	1.00	1.50	1.25	1.10	1.50	1.00	1.30	1.10	3.00	1.50	1.50	1.50	1.50
4750 sq.yd. sidewalks restored	3.00	1.35	1.25	1.35	2.25	2.00	1.20	1.25	1.60	2.00	2.00	1.00	2.00	2.00
1120 sq.yd. repavement of roadways, asphalt	2.50	2.20	2.50	2.50	2.25	2.75	1.60	2.50	2.00	2.50	2.50	2.50	1.50	2.50
26,700 sq.yd. repavement of roadways, granite block	0.75	0.80	2.00	0.25	1.25	2.50	0.55	3.00	0.70	2.50	2.50	2.00	2.00	2.50
9400 sq.yd. repavement of roadways, Belgian block	0.40	0.80	2.00	0.25	1.25	3.00	0.55	1.00	0.75	2.50	1.00	2.00	2.00	0.75
100 lin.ft. new bluestone curb in place	1.50	2.00	1.30	1.00	2.00	1.00	0.65	1.00	1.40	1.50	1.25	1.50	1.50	1.00
100 lin.ft. new 8-in. granite curb	2.50	2.50	2.25	2.00	2.00	1.20	0.90	1.50	2.50	1.75	2.00	2.50	2.00	2.00
95 sq.yd. park surface restored, all classes	2.00	2.00	1.00	1.00	1.00	2.00	1.00	1.25	2.50	2.00	2.00	1.00	2.00	1.00
15,500 lin.ft. ¾-in. w.i. electric conduits	0.19	0.20	0.25	0.15	0.18	0.15	0.07	0.20	0.30	0.20	0.25	0.20	0.20	0.20
800 lin.ft. 1¼-in. w.i. electric conduits	0.30	0.40	0.50	0.25	0.32	0.30	0.17	0.40	0.40	0.30	0.40	0.30	0.40	0.30
450 lin.ft. 2-in. w.i. electric conduits	0.45	0.50	0.75	0.30	0.40	0.40	0.25	0.60	0.55	0.40	0.60	0.50	0.50	0.40
4500 lin.ft. 1-in. w.i. electric conduits	0.25	0.30	0.40	0.20	0.24	0.20	0.11	0.30	0.33	0.25	0.30	0.25	0.30	0.25
1250 c.i. outlet boxes	1.00	1.50	1.30	1.00	0.50	1.00	0.50	1.00	0.80	1.00	1.00	0.75	1.60	0.97
10 c.i. pull boxes	1.12	1.50	12.00	2.00	3.50	2.00	1.00	1.00	5.00	1.00	3.00	3.00	1.00	5.00
300 lin.ft. 6-in. c.i. pipe and fittings "extra heavy"	1.20	2.50	1.30	1.50	1.40	1.50	0.75	2.00	2.00	1.50	1.50	1.50	2.00	1.50
150 lin.ft. 3-in. c.i. pipe and fittings "extra heavy"	0.60	1.50	0.90	1.00	1.00	1.00	0.50	1.00	1.00	1.00	1.00	1.00	1.00	0.75
3460 lin.ft. sewer pipe, 12-in. vitrified	0.50	3.60	2.50	2.40	2.75	3.00	0.90	3.00	2.75	3.50	3.00	2.50	2.50	3.10
1000 lin.ft. sewer pipe, 15-in. vitrified	0.85	2.80	3.00	2.75	3.00	3.70	1.00	3.50	3.25	4.00	3.50	3.00	3.00	3.35
100 lin.ft. sewer pipe, 18-in. vitrified	1.40	5.00	3.00	3.25	3.20	4.20	1.50	4.00	3.50	4.50	4.00	4.00	3.50	3.60
100 lin.ft. sewer pipe, 20-in. vitrified	1.75	5.00	4.00	4.00	3.55	4.50	2.00	4.50	4.00	5.00	4.50	4.50	3.75	3.85
100 lin.ft. sewer pipe, 22-in. vitrified	2.00	5.00	5.00	4.50	3.95	5.00	2.00	4.75	4.50	5.25	5.00	4.75	4.00	4.10
1300 lin.ft. sewer pipe, 24-in. vitrified	2.00	6.00	5.00	4.50	4.00	5.20	3.00	5.00	5.00	5.50	5.50	5.00	5.00	4.35
60 ton sewer pipe, c.i. straight	50.00	40.00	50.00	40.00	36.00	45.00	50.00	50.00	45.00	60.00	50.00	60.00	37.00	40.00
12 ton sewer pipe, c.i. special	100.00	80.00	72.00	75.00	70.00	70.00	60.00	60.00	90.00	90.00	80.00	90.00	65.00	70.00
1060 lin.ft. sewer egg-shaped 3 ft. 6 in. x 2 ft. 4 in.	3.60	6.00	7.50	6.00	6.25	6.50	8.00	6.00	7.00	8.00	6.00	8.00	7.00	5.60
140 lin.ft. sewer egg-shaped 3 ft. 9 in. x 2 ft. 6 in.	4.00	6.00	8.50	6.25	6.50	7.00	9.00	6.50	7.50	9.00	7.00	9.00	7.50	6.10
50 lin.ft. sewer egg-shaped 4 ft. 6 in. x 3 ft. 6 in.	6.00	6.00	10.00	8.00	8.00	10.00	12.00	7.00	8.00	10.00	8.00	10.00	8.00	6.25
650 lin.ft. circular sewer 4 ft. ; in. diameter	5.00	7.00	10.00	6.00	8.00	8.00	8.00	7.00	8.25	10.00	10.00	10.00	8.00	6.60
1280 lin.ft. circular sewer 4 ft. 9 in. diameter	7.30	9.50	12.00	8.50	8.75	9.00	10.00	7.50	10.00	11.00	10.50	12.00	9.00	8.70
1600 lin.ft. circular sewer 5 ft. 0 in. diameter	8.00	11.00	12.00	9.00	9.25	10.00	13.00	8.00	10.50	13.00	11.00	14.00	10.00	10.80
2620 lin.ft. circular sewer 5 ft. 3 in. diameter	8.25	11.25	13.00	9.25	9.60	12.00	14.50	8.50	11.50	14.00	11.50	16.00	12.00	11.40
350 lin.ft. circular sewer 5 ft. 6 in. diameter	9.00	12.00	13.00	9.50	10.00	14.00	16.00	9.00	12.50	15.00	12.00	18.00	14.00	12.00
2 12-in. iron bronze sluice gates with sipots	75.00	200.00	75.00	50.00	75.00	100.00	80.00	20.00	50.00	100.00	50.00	50.00	200.00	50.00
15,000 lin.ft. electric (overhead trolley) railroads, one track	2.30	0.50	4.00	0.25	2.25	5.00	1.50	3.00	3.00	10.00	7.00	4.00	8.00	10.00
350 lin.ft. water pipe, 4-in.	0.35	0.60	1.00	0.30	0.75	0.50	1.00	0.60	0.75	1.00	0.80	1.80	1.00	1.00
1400 lin.ft. water pipe, 6-in.	0.35	0.90	1.00	0.40	1.00	0.80	1.10	0.75	0.90	1.25	1.00	1.00	1.00	1.00
1400 lin.ft. water pipe, 8-in.	0.50	1.20	1.30	0.50	1.25	1.10	1.40	1.50	1.10	1.50	1.25	1.50	2.50	1.25
150 lin.ft. water pipe, 12-in.	0.60	1.80	1.60	0.75	1.75	1.50	1.65	1.60	1.50	2.00	1.40	2.00	3.00	1.50
75 lin.ft. water pipe, 16-in.	0.85	2.40	2.50	0.90	2.50	2.00	2.40	1.80	2.00	2.50	2.00	3.00	4.00	2.50
1920 lin.ft. water pipe, 20-in.	1.20	3.00	3.10	1.25	3.50	2.50	3.00	2.00	2.25	2.50	4.00	4.00	5.00	2.75
300 lin.ft. water pipe, 48-in.	5.50	7.00	10.00	4.00	7.00	6.50	11.00	4.00	9.00	10.00	10.00	12.00	6.00	9.00

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
100 service connections for water pipes	12 00	20 00	20 00	25 00	20 00	12 00	20 00	20 00	25 00	25 00	20 00	20 00	10 00	15 00
250 lin.ft. gas pipe, 3-in	0 35	0 50	0 50	0 30	0 60	0 60	0 70	0 60	0 60	1 00	0 40	0 40	1 00	0 50
700 lin.ft. gas pipe, 4-in	0 35	0 60	0 75	0 40	0 85	0 75	1 00	0 75	0 75	1 00	0 50	0 50	1 00	0 75
650 lin.ft. gas pipe, 6-in	0 35	0 90	0 75	0 50	1 00	1 00	1 10	1 00	1 10	1 25	0 60	0 60	1 25	1 00
300 lin.ft. gas pipe, 8-in	0 50	1 20	1 00	0 60	1 15	1 25	1 65	0 75	1 50	1 50	0 80	1 00	2 50	1 25
1900 lin.ft. gas pipe, 10-in	0 60	1 50	1 50	0 70	1 40	1 50	1 80	1 00	1 50	1 50	1 00	1 50	3 00	1 50
100 lin.ft. gas pipe, 12-in	0 75	1 80	1 50	0 75	1 60	1 80	2 00	1 50	1 75	1 75	1 20	1 75	3 50	1 75
1850 lin.ft. gas pipe, 16-in	0 90	2 00	2 00	1 20	2 00	2 50	2 20	1 80	2 00	1 75	1 60	2 25	4 00	2 00
450 lin.ft. gas pipe, 42-in	4 50	8 00	7 00	4 00	6 00	7 00	5 50	3 00	7 50	6 00	10 00	12 50	4 50	7 00
80 lin.ft. gas pipe, 20-in	1 25	2 00	4 00	1 50	3 00	4 00	2 35	2 00	2 50	2 00	2 50	3 00	5 00	2 50
50 lin.ft. gas pipe, 24-in	1 50	3 00	4 00	2 00	4 00	5 00	2 75	2 50	3 50	2 25	4 00	4 00	6 00	3 50
8000 lin.ft. 6-in. by-passing pipe	1 00	3 00	2 50	2 00	2 75	2 20	2 10	2 00	3 50	2 00	3 00	3 00	4 00	3 00
7300 lin.ft. 8-in. by-passing pipe	1 40	3 00	3 00	2 50	3 50	3 60	2 65	3 50	3 50	2 00	3 50	3 50	5 00	3 25
2000 lin.ft. 12-in. by-passing pipe	2 50	3 50	4 50	3 50	4 50	4 00	4 00	5 00	5 00	3 50	4 00	4 50	6 00	4 00
650 lin.ft 4-in. by-passing pipe	0 85	2 50	2 00	2 00	2 25	2 00	1 00	2 00	2 50	1 00	2 50	2 75	3 50	2 50
350 lin.ft. 12-in. by-passing pipe, on trestle	3 50	3 50	8 00	2 50	3 60	4 00	4 00	5 00	7 50	6 00	6 00	4 75	6 00	4 50
1550 lin.ft. 16-in. by-passing pipe, on trestle	4 50	5 00	8 00	3 50	4 50	6 00	5 00	6 00	7 50	8 00	8 00	6 00	8 00	4 75
170 lin.ft. 6-in. by-passing pipe, on trestle	1 10	3 00	5 00	2 00	4 50	6 00	2 00	2 50	6 00	10 00	5 00	6 00	4 00	3 25
500 lin.ft. 36-in. by-passing pipe, on trestle	14 50	7 00	20 00	9 00	10 00	10 00	8 50	15 00	15 00	14 00	15 00	15 00	10 00	13 50
500 lin.ft. 8-in. by-passing pipe, on trestle	1 40	3 00	5 00	3 00	3 00	3 00	3 00	4 00	6 00	8 00	4 00	3 75	3 00	3 50
1300 lin.ft. trestle to support by-passing pipes	2 40	3 00	3 00	2 50	2 00	3 00	2 75	3 00	6 00	2 00	5 00	2 00	3 50	3 50
160 lin.ft. catenary for over 16-in. pipe	2 50	12 00	1 00	2 50	8 00	5 00	2 20	4 00	6 00	2 00	5 00	2 50	2 00	4 50
1300 lin.ft. catenary for 16-in. pipe and under	7 50	3 00	0 75	2 50	8 00	5 00	1 80	4 00	4 50	2 00	5 00	2 00	2 00	2 25
250 service connection for gas pipes, all sizes	4 75	20 00	12 00	25 00	8 00	12 00	20 00	10 00	25 00	25 00	20 00	20 00	10 00	10 00
Maintain and supply 16-in. G Main in Nostrand Ave. (lump sum)	6 25	1550 00	3000 00	500 00	1500 00	5000 00	5000 00	100 00	1500 00	2500 00	500 00	3000 00	2350 00	
75 ton new c.i. hub and spigot straight pipe	23,000 00	40 00	45 00	30 00	40 00	35 00	25 00	45 00	30 00	40 00	50 00	45 00	35 00	
30 ton new c.i. hub and spigot special pipe	34 00	80 00	70 00	65 00	75 00	70 00	40 00	65 00	75 00	60 00	80 00	75 00	65 00	
2200 duct. ft. electric ducts and conduits	80 00	0 75	0 75	0 50	0 60	0 40	0 75	0 40	1 00	1 00	1 00	0 50	0 70	0 54
100 lin.ft. 2½-in. w.i. electric conduits	0 40	1 00	1 00	1 00	1 00	0 40	1 00	0 40	1 00	1 00	1 00	1 00	1 00	0 65
100 lin.ft. 3-in. w.i. electric conduits	0 50	1 00	1 50	1 00	1 10	0 50	1 10	0 45	1 10	1 00	1 00	1 00	1 00	0 70
100 lin.ft. 3½-in. w.i. electric conduits	0 50	1 00	1 50	1 00	1 10	0 50	1 10	0 50	1 20	1 00	1 00	0 70	1 00	0 75
100 lin.ft. 4-in. w.i. electric conduits	0 60	1 00	2 00	1 00	1 30	0 55	1 40	0 55	1 30	1 00	1 00	0 80	1 00	0 80
100 lin.ft. 4½-in. w.i. electric conduits	0 80	1 00	2 50	1 00	1 40	0 60	1 50	0 60	1 40	1 00	1 00	1 00	1 00	0 85
650 lin.ft. 2-in. Edison conduit	0 35	0 75	0 75	0 40	1 50	0 40	1 45	1 00	1 25	1 00	1 00	0 50	1 00	1 25
50 lin.ft. 2½-in. Edison conduit	0 40	1 00	1 00	1 00	2 00	0 50	1 50	1 25	1 50	1 00	1 00	0 60	1 00	1 50
300 lin.ft. 3-in. Edison conduit	0 45	1 00	1 50	1 00	2 00	0 60	1 60	1 50	2 00	1 00	1 00	0 70	1 00	1 75
30 service connection for electric ducts	10 00	25 00	20 00	25 00	20 00	12 00	20 00	10 00	25 00	50 00	10 00	20 00	10 00	15 00
100 duct. ft. wooden electric-ducts and conduits	0 25	1 00	0 80	1 00	0 60	1 00	1 20	0 50	1 00	1 00	1 00	0 50	0 50	0 00
Extended totals	$2,073,303	$2,187,286	$2,242,401	$2,376,309	$2,392,608	$2,512,485	$2,534,532	$2,539,048	$2,633,766	$2,765,887	$2,834,736	$2,904,029	$2,944,287	$3,331,566

(Continued from Page 21)

Marlin, Tex.—At a recent election the citizens voted in favor of the question of issuing $60,000 in bonds. The proceeds will be used for the construction of a school. Noted June 3.

San Diego, Tex.—An election will be held July 20 by the Commissioners of Duval County to vote on the question of issuing $100,000 in bonds, the proceeds of which will be used for the construction of a courthouse.

Stillwell, Okla.—An election will be held July 20 to vote on the question of issuing $40,000 in bonds, the proceeds of which will be used for the construction of a courthouse and jail for Adair County.

✚**Tucson, Ariz.**—The general contract for the construction of a cathedral for the Scottish Rite Corporation has been awarded to WEYMOUTH CROWELL, 2026 West Ninth St., Los Angeles, Calif. The estimated cost is $74,000. Noted May 27.

Davenport, Wash.—Bids will be received until July 3 by H. L. Paige, Clk. of School Dist. No. 14, for the construction of a school. The estimated cost is $50,000. A. G. Rigg, Empire State Bldg., Spokane, is Arch.

Seattle, Wash.—Bids will be received about July 10 by the Metropolitan Building Co., for the construction of a 120x240-ft. building at Fifth Ave. between University and Seneca St. The building will be occupied by the Seattle Arena Co. and will cost about $100,000. Howells & Stokes is Arch.

✚**Walla Walla, Wash.**—(Official)—J. B. SWEATT & CO., Spokane, at $149,900, using Indiana sandstone, has been awarded the contract for the construction of a courthouse for Walla Walla County. C. F. Dement is County Audr. and Osterman & Seibert is Arch. Noted May 27 and June 10.

✚**Pilot Rock Junction, Ore.**—(Pendleton post office)—The contract for the construction of terminals for the Oregon-Washington R.R. & Navigation Co. has been awarded to TWOHY BROS., Portland. The estimated cost is $400,000. Noted under The Dalles, Ore., June 24.

Los Angeles, Calif.—The lowest bid submitted on the general contract for the construction of a two-story high school at Rowan Ave. was that of the Huntsberger-Reed Co., Van Nuys Bldg., at $48,636. Noted June 3.

Suisun City, Calif.—At a recent election the citizens voted in favor of issuing $40,000 in bonds to be used for the construction of a high school.

✚**London, Ont.**—The Board of Education has awarded the contract for the construction of a school to S. WILLIS, 765 Talbot St., London. The estimated cost is $75,000. Noted Feb. 25.

The Narrows, Man.—Bids will be received until July 10 by David Clapp, Secy., School Bd., for the construction of a school. The estimated cost is $43,000. G. N. Taylor is Arch.

Electrification on the Pennsylvania—By July 1 electrification work is expected to be completed and the line in operation on the 20 miles of the Pennsylvania's Philadelphia-New York line between the Broad St. Station in Philadelphia and Paoli, Penn. The cost is put at $4,000,000. Part of the work has been unusually difficult. For instance, between West Philadelphia and Broad St. the movement of 2295 trains and engines is squeezed down to a six-track neck at the first interlocking tower west of Broad St. Station, where 55 switches and 52 signals are established. Reconstruction of this neck for electrification had to be carried on without interference with traffic. In the 20-mile stretch not a life was lost nor did any serious accident occur from electric shock throughout the work, although 660 miles of electric wires were set up and 760 poles erected in addition to 36 signal stations and four power stations. The electric service will be operated by the catenary system of conductors, the current being drawn from the lower of two trolley wires suspended from the catenary. The lower or contact wire is made of a hard, lasting alloy called "phonobronze" and is suspended below the other wire which is of copper. Instead of trolley poles and wheels, the current is conveyed from the wire to the car motors by means of "pantagraphs." The airbrakes are of the new type known as "electrically actuated," while the automatic block signal system used in the new electrified zone is of an entirely new style. The main feature of the latter is the employment day and night of rows of brilliant white electric lights set in a black background.

CATALOG NOTICES

Orton & Steinbrenner Co., Chicago, Ill. Catalog. Locomotive cranes and grab buckets. Illustrated, 44 pp., 6x9½ in.

Fairbanks, Morse & Co., 900 South Wabash Ave., Chicago, Ill. Catalog No. 114A. Practical Irrigation by Pumping. Illustrated, 40 pp., 6x9 in.

Ayer & Lord Tie Co., Railway Exchange Bldg., Chicago, Ill. Booklet. Interior wood blocks for floors. Illustrated, 16 pp., 3½x6½ in.

Emerson Pump & Valve Co., Alexandria, Va. Catalog. Steam pumps, foot valve and quick cleaning strainers. Illustrated, 80 pp., 6x9 in.

The Weber Chimney Co., 332 South Michigan Ave., Chicago, Ill. Catalog No. 10. Reinforced concrete chimneys. Illustrated, 48 pp., 5x9 in.

The Fargo Mfg. Co., Inc., Poughkeepsie, N. Y. Catalog No. 800. Electrical wiring devices. Illustrated, 18 pp., 6x9 in. Catalog No. 700 and Bulletin No. 402. Mechanical connecting devices for trolley construction. Illustrated, 6x9 in.

Cement-Gun Co., Inc., 30 Church St., New York. Bulletin No. 91. "Tunnel Waterproofing with Cement-and-Clay Mortar Fifty Feet Below Sea Level." Illustrated, 4 pp., 3½x6 in. Bulletin No. 101. "The Cement-Gun Process of Permanently Repairing Coke Ovens." Illustrated, 4 pp., 6x9 in.

Gifford-Wood Co., Hudson, N. Y. Buletin No. 16. Wagon loaders for handling stone, gravel, etc. Illustrated, 12 pp., 6x9 in.

Gifford-Wood Co., Hudson, N. Y. Bulletin No. 17. Pivoted bucket carrier for elevating and conveying stone, gravel, sand, etc. Illustrated, 16 pp., 6x9 in.

Contracts to Be Let

Bids received until July 19, 1915.

Water-Works Distributing System

Borough of Totowa, Passaic Co., N. J.

Sealed proposals will be received by the Mayor and Borough Council of the Borough of Totowa, Passaic Co., N. J., until 8:15 P.M. on Monday, the 19th day of July, 1915, at the Council Chamber, in the Borough Hall, on Lincoln Avenue, in said Borough, for the construction of a water-works distributing system.

The work involved consists of furnishing all material and labor in the construction of about 11 miles of water mains (bell and spigot pipe), 4" to 10" in size, together with furnishing and installing about 75 fire hydrants, furnishing and setting about 150 gate valves and boxes, constructing two meter chambers, and other incidental work necessary to complete the system.

Bids will be received as follows (on any or all of the four below):

(1) For furnishing c.i. water pipe (bell and spigot) and special castings.

(2) For furnishing Fire Hydrants, Gate Valves and Boxes.

(3) For Construction (Labor and Workmanship, etc.).

(4) For the work as a whole (furnishing all material and labor necessary to complete the system).

Each proposal or bid shall be accompanied by a certified check for five per cent. (5%) of the amount of the bid.

The contract bond will be fifty per cent. (50%) of the amount of the contract.

Copies of the plans, proposal forms, specifications, and forms of bonds, and contract can be seen at the office of Wm. Ferguson's Son, United Bank Building, No. 152 Market St., Paterson, N. J.; or may be obtained by prospective bidders upon depositing five dollars ($5.00) with Wm. Ferguson, Jr., Boro. Engr., which sum will be refunded upon return of plans and specifications within five (5) days after the contract is awarded, if same are in good condition when returned.

The Mayor and Borough Council reserve the right to reject any or all bids, waive any informalities in the bids received, and to accept any bids which it deems most favorable to the Borough of Totowa, N. J.

LINDEN REDMAN, Boro. Clerk.
WALTER R. HUDSON, Mayor.

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Bids received until July 15, 1915.

Water-Works, Sewerage System, Disposal Plant

Clayton, Del.

Sealed proposals will be received by the Town Council of Clayton, Delaware, up to 8 o'clock P.M. of the 15th day of July, for furnishing all the labor, plant and material and doing all the work necessary to construct a water supply, sewerage system and disposal plant.

The work includes a tower and tank, pumping station, driving wells, all machinery, laying 4 and 6" cast iron mains, also 2½ miles sewers 8" to 12", appurtenances, and a disposal plant.

A certified check for $1000 must accompany each bid. The Council reserves the right to reject any or all bids or accept the most favorable bid.

Plans may be seen and specifications and forms of proposal obtained from W. R. Clements, Secretary, or at the office of Herbert W. Hatton, Consulting Engineer, Equitable Building, Wilmington, Del. A full set of prints will be mailed to bidders upon receipt of $3, which sum will be returned only to the successful bidder.

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U. S. ENGINEER OFFICE, Wilmington, Del.—Sealed proposals for dredging Tuckerton Creek and Absecon Creek, N. J., will be received here until 11 A.M., July 24, 1915, and then opened. Further information on application.

OFFICE OF THE COMMISSIONERS, D. C., June 24, 1915.—Sealed proposals will be received at this office, Room 509 District Building, until 2 o'clock P.M., on July 7, 1915, for the construction of Sewers in the District of Columbia, involving the construction of approximately 6,000 linear feet of pipe sewer 10 inches to 12 inches diameter. Forms of proposals, specifications and necessary information may be obtained from the Chief Clerk, Engineer Department, Room 427 District Building, Washington, D. C. OLIVER P. NEWMAN, LOUIS BROWNLOW, CHARLES W. KUTZ, Commissioners, D. C.

Bids received until July 7, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS,
Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. on Wednesday, the 7th day of July, 1915, for the repair of highways in the following counties:

Albany (two contracts—resurfacing); Broome (one contract); Cayuga (two contracts—Resurfacing and Surface Treatment); Columbia (4 contracts—Surface Treatment); Delaware (one contract—Surface Treatment); Dutchess (one contract—Resurfacing); Erie (one contract—Resurfacing); Franklin (one contract—Surface Treatment); Greene (one contract—Surface Treatment); Herkimer (one contract—Resurfacing); Madison (one contract—Resurfacing); Monroe (one contract—Resurfacing); Oneida (5 contracts—Resurfacing and Surface Treatment); Ontario (two contracts—Resurfacing and Surface Treatment); Orange (one contract—Surface Treatment); Rensselaer (one contract—Resurfacing); Rockland (two contracts—Resurfacing); Saratoga (one contract—Resurfacing); St. Lawrence (two contracts—surface treatment); Schenectady (one contract—Surface Treatment); Suffolk (one contract—Surface Treatment); Westchester (one contract—Surface Treatment).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose divisions the contracts are to be repaired. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "Information for Bidders" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.
I. J. MORRIS, Secretary.

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Bids received until July 23, 1915.

Concrete Reservoir

Binghamton, N. Y.

Sealed proposals will be received by the Board of Water Commissioners, at its office in Binghamton, New York, up to ten o'clock A.M., Friday, July 23, 1915, and then and there opened, for furnishing the materials and constructing a Covered Reservoir of 750,000 gallons capacity.

Plans and Specifications, with blank form of proposal, may be examined at the office of the Board of Water Commissioners, Binghamton, N. Y., or copies will be furnished to intending bidders on receipt of a deposit of ten dollars ($10.00), which will be returned to the party furnishing the same upon the return, in good order, of the Plans and Specifications.

A deposit of $500.00 in cash or certified check is required with proposal. Bond of $5000.000 required with contract.

Payments monthly to the extent of 90% of the Engineer's estimate of work accomplished, including allowance for materials.

Each bidder will be required to state what work of a similar nature he has done, and the Board of Water Commissioners reserve the right to reject any or all bids if they deem it to the interest of the City so to do.

JOHN D. DAVIDSON, Secretary,
Board of Water Commissioners
FREDERIC E. BECK, Engineer.

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U. S. ENGINEER OFFICE, 305 Southern Building, Washington, D. C.—Sealed proposals for furnishing materials and erecting complete a brick storehouse in McMillan Park will be received here until 12 M., July 17, 1915, and then publicly opened. Information on application.

U. S. ENGINEER OFFICE, Jacksonville, Fla.—Sealed proposals will be received here until 12 noon, July 24, 1915, and then opened, for dredging and rock removal in St. Johns River, Fla. Further information on application.

PROPOSALS FOR LEVEE WORK—Office of Third Mississippi River District, P. O. Box 404, Vicksburg, Miss.—Sealed proposals will be received here until 11 a.m., July 12, 1915, and then opened, for constructing about 1,415,000 cubic yards of levee work. Further information on application.